REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

November, 1986

2^{50}

A Repeater Goes "DX"

Also this issue. . .

- New Updated Repeater Index
- Full Membership Renewals
- Director/Vice Director Elections

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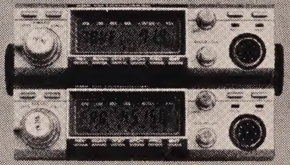

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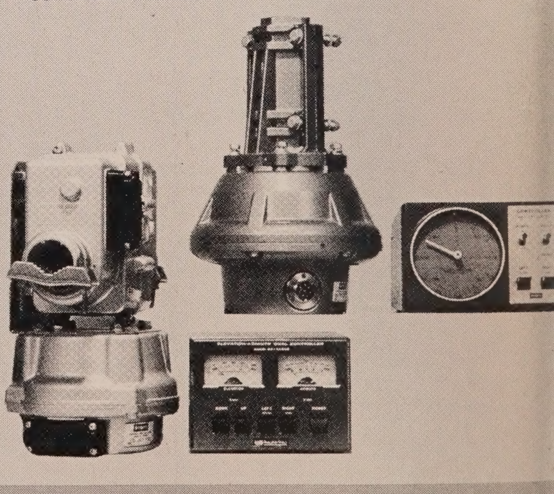

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REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

Nov., Dec. 1986
VOLUME 15, NO. 4
ORGANIZED IN 1971
"IN OUR 15th YEAR"

Editorial Comment

A Time for Building & Strengthening!

It's that time again! Nomination time for Directors and Vice Directors. Years ago, it was an impossible chore, trying to find someone who would lead a State for CVRA-SERA. Oftentimes, a Director would stay on because no one would step forward and take on the powerful job of Director or Vice-Director.

Today, the trend is changing. It may be the advent of the FCCs Coordination procedures, which tells Coordinating Councils, and amateurs that the FCC is going to take the job of voluntary Frequency Coordination Councils seriously, and back them up when they need help. I can equate with that. Over the past 15 years, it has been a frustrating experience trying to keep organization among the VHF/UHF bands with only "gentlemen's agreements" to keep the lid on things. Today, things are changing. The FCC has issued guidelines for Repeater Councils, and if these coordinating bodies do their homework, and keep their documentation up-do-date, they will fare much better when disputes pop out. In days past, disputes had to be handled on a basis of getting the people together and trying to work things out. That, for the most part went well, but occasionally you came across repeater owners who absolutely refused to budge, or cooperate.

Our procedure today has not changed. We still try to work out interference problems between parties involved, but we have one step further we can go when things get out of hand, or one party refuses to cooperate. We can ask the FCC Field Office for that area to become involved and they will.

As of this writing, we have one or two conflicts which have gone on forever. We're still trying to resolve them. Someday, with the FCC's help, we just might do that. They have been long, frustrating, costly battles, but CVRA-SERA is right, we have documented proof and we will win, if and whenever the FCC acknowledges our facts and seeks to resolve the situation on behalf of our Coordination organization. We have been patient, perhaps too patient, but in order to win the war, we need to continue the same road we have taken the last six months. (We are purposely leaving names and places confidential for obvious reasons in these situations for the time being).

Our new crop of nominees for the seven Districts contain some new faces, and we see some old faces returning.

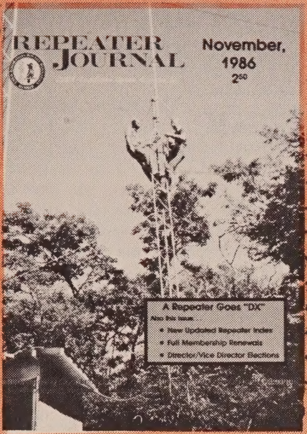
You new Directors and Vice-Directors have a unique place in history in the CVRA-SERA. You will be taking office with much more information, much better tools, a new coordination policy, new work sheets, new computerized data base information, and most importantly, more recognition and specific recommendations by the FCC.

Your job is an important one. You must lead your State forward, maintain a favorable climate within your many repeater owners, educate your prospective repeater owners, and at the same time, dilligently see that your State remains the favorite VHF/UHF operating climate of hams that live there, and thousands who travel through, and marvel at the great friendliness and trouble-free operations we have here in CVRA-SERA territory.

You must document, keep records, write repeater owners, solicit membership, and do everything in your power to make your State remain on top of the heap. Many of you have your job cut out for you, some of you will be able to step into a situation which is already well prepared for the future. Either way, you must not let go of the reins, keep pushing. Competiveness of States in membership is growing, don't let your State fall behind, be the mostest with the bestest. You own it to your fellow hams who are supporting you, and you owe it to CVRA-SERA who has entrusted you with this very important role in your State.

We congratulate you on your position, and we wish you the very best in your office. May your State be trouble-free, and very supportive to your endeavor.

—Wayne C. Williams, K4MOB
Editor, The Repeater Journal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ON THE COVER

Our first color slide for the Repeater Journal cover was thoughtfully supplied by Ted Goldthorpe, president of the Carolina DX Association. In the photo, two CDXA members work at replacing a lightning damaged superstation-master with a new Hustler G-7 antenna for the CDXA 96-36 machine on Rich Mountain near Boone, N.C. Antenna elevation is 4,500 feet.

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NOV., DEC., JAN. 1986-87

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About CVRA-SERA. . .

CVRA-Southeastern Repeater Association, Inc. is one of the largest Non-Profit repeater councils in the U.S. In our 15th year of operation, CVRA-SERA territory covers over 900 repeaters in the member States of NC, SC, VA, WVA, TN, EKY, and GA. Our goal and promise is to continue providing a pleasant operating condition in the UHF/VHF spectrum of Amateur Radio.

In This Issue

A Time for Rebuilding & Strengthening! (Editorial) 1
Director-Vice Director Nominations 3
Winter Board Meeting In Knoxville 3
A Space Station Ham Shack In Future 6
Minutes of August Board Meeting 9
CVRA-SERA Financial Report 11
Full Membership Application 12
Journal Repeater Index (By Frequency) 16-18
Repeater Index-CVRA-SERA Official (By-State, By City) 18-25
West Virginia - Tennessee News 30
Associate Membership Application 31
Georgia News 33
"Technical" - Low Profile Mobile Antennas 35

Where To Find It!

Officers & Committees 2
Repeater Journal Staff 1
District Directors .... Bk. Cover
Associate Mbrship. Appl. 31
Full Mbrshp. Appl. 12
VEC Examination Sked 14
Repeater Indexes 16-25
Stubbie 28
Financial Report 11
Hamfest Calendar 40
Advertiser List 40
Looking Back 13

About Associate Membership

Repeater users and Amateurs are invited to join CVRA-SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication -- Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. CVRA-SERA does not issue receipts for Membership applications. Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 24292, Winston-Salem, N.C. 27114-4291. Associate Members may hold appointive positions within CVRA-SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join CVRA-SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a CVRA-SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calender year.

About the Repeater Journal. . .

The CVRA-SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRASoutheastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

Director, Vice-Directors Nominated For 1987-88 Term of Office

The nominating committee has reported for the upcoming elections of Director and Vice-Director in each of our seven Districts of CVRA-SERA. These nominations are representative to the general wishes of each District, however, nominations "from the floor" may be made from any District by any group wishing to place anyone elses name in the running for that District.

We have published in this issue of the Journal, a nomination form. This form may be used by any Full Member repeater owner who wishes to place additional names of persons for nomination of Director and/or Vice-Director for that District.

Selection of the Committee

WEST VIRGINIA

DIRECTOR Nominee: Karl Morris, WB8GDY. Karl is from St. Albans, near Charleston in the Southwestern part of WV. He was instrumental in assisting the forming of a CVRA-SERA District of WV in 1980.

VICE-DIRECTOR: Lyle B. Gaston, W8FG. Lyle has been in the repeater business since 1969 with his machine on Lick Knob and Kinston. He lives n Pratt.

NORTH CAROLINA

DIRECTOR: F.L. Warfard, K4AZA. F.L. dates back to the early '70's and was one of the original persons who originated the N.C. FM Repeater Association. He lives in High Point and operates repeaters there.

VICE-DIRECTOR: Orin Harding, WA4TBR. Orin who just returned to North Carolina last year represents repeaters in Greensboro.

VIRGINIA

DIRECTOR: Wally Burkette, WA4KXV. Wally is probably the most well known Amateur on the East Coast of Virginia. He has served many years in CVRA-SERA and operates out of Virginia Beach.

VICE-DIRECTOR: No Nominees.

(Editor's Note: As of press time, we had received no correspondence for a nominee for Vice-Director of Virginia.)

EASTERN KENTUCKY

DIRECTOR: Fred Jones, WA4SWF. Fred, the original Director of our newer District has been re-nominated for a 2nd term. He is from Louisa.

VICE-DIRECTOR: Terry Estes, WB4ASZ. Terry, like Fred, has been re-nominated for a second term. Terry is from Winchester.

SOUTH CAROLINA

DIRECTOR: Len H. Bjerken, WB4USY. Len, a familiar face with CVRA-SERA returns as Director nominee. Len had been out of the State for several years.

VICE-DIRECTOR: No nominees.

(Editor: No nominations for Vice-Director have been received at press time.)

TENNESSEE

DIRECTOR: J. Tom Park, WD4KWP. Tom, only the 2nd Director for Tennessee since they became a CVRA-SERA District, hopes to return for a third term. He is from Gallatin.

VICE-DIRECTOR: Jean Giesler, W4TYU. Jean, the workhorse from Tennessee returns for a second term as Vice-Director nominee. Jean is from Knoxville.

GEORGIA

DIRECTOR: Jim Abercrombie, N4JA. Jim returns for a second session as Director of our newest District. He is from Augusta.

VICE-DIRECTOR: John Robertson, N4BGL also returns for re-nomination for a second term. John is from Lawrenceville.

Under the By-Laws of CVRA-SERA, these people have been nominated by the nominating Committee. If there are no further nominations by November 30, the appointed Board of Tellers for CVRA-SERA will proclaim them elected to the post. The new Directors and Vice-Directors will then take office at Noon, January 1st, 1987 and serve for 2 years.

Under Section 8, "Elections" of the CVRA-SERA By-Laws, the Repeater Journal is to publish the names of the Nominated Directors and Vice-Directors, in the November Repeater Journal. The editor is to also publish a procedure for nominating additional candidates for each office. Additional nominations for either post shall be made by taking the form printed in this issue of the Journal, and with the acquisition of signatures of three (3) Full Member repeater representatives from that District, be mailed to the Secretary and in her hands no later than noon, November 30, 1986.

See Nomination Form
This Issue - Page 27

If there are additional nominations for any office, the Secretary will prepare ballots for that District with additional valid nominations,and all Full Members in that District will be mailed a ballot, to mark their preference of Director or Vice-Director. The ballot must be returned to the Secretary no later than December 10th. She must have any ballots in the mail by December 2.

The ballots will remain sealed and turned over to the Board of Tellers, who will meet no later than noon, December 13 and open the ballot envelopes and count the results. The Tellers will then report the results to the Board of Directors and turn the ballots over to the Secretary who will notify the newly elected parties.

Newly elected Directors and Vice-Directors assume office on January 1, and will officially be installed in ceremonies at the Winter Board meeting in Knoxville, Tenn., January 11, 1987.

Winter Board Meeting In Knoxville Jan. 11

CVRA-SERA will hold their Winter board meeting in Knoxville, Tn. at the Howard Johnson's North on January 11, 1987. Host and responsible for accommodations and meeting place in Ray Adams, N4BAQ, Treasurer of CVRA-SERA.

The top agenda for the meeting will be installation of the 1987-88 elected Directors and Vice-Directors from the CVRA-SERA seven states.

Members of the board will be arriving Saturday afternoon, Jan. 10. It is expected that several cluster meetings will be held in various rooms that evening and night, to dispose of small business items, and preparations for major items to be discussed at the formal meeting Sunday.

After breakfast Sunday morning, the Board will meet in formal session. The meeting generally breaks for lunch, then adjourns shortly thereafter to give persons time to get home before dark as much as possible.

Another major item on the agenda will be the formal adoption of the new CVRA-SERA Coordination Policy re-write. The policy in its rough draft of re-write has been mailed to each voting member of the board, and the three FCC District offices involved. The corrected and changed first draft, will be assembled for a second draft, to be mailed to the Board in early December. This second draft will then be corrected and a final draft will be sent by January 1 in order for voting Board members to be familiar with the final draft and prepared to vote at the January meeting.

Director and Vice-Director reports, as well as various Committee reports will also be heard at the meeting. It is not known if any special guests will be coming at press time, but we usually have representatives from other Repeater Councils and sometimes the FCC setting in on our formal meeting.

All Board members are urged to make plans to attend this very important meeting. Members should indicate to the CVRA-SERA Treasurer whether or not they will be coming so he can have time to adjust accordingly.

GREENSBOR

The Mark 4 Amateur Radio Club Is Happy To Announce The 6th Annual Greater Greensboro N.C. Hamfest — 1986

DATE: November 22 & 23, 1986
HOURS: 9:00 A.M. — 5:00 P.M.
LOCATION: National Guard Armory-Franklin Blvd.
PRIZES: 1st $500 - 2nd $250 - 3rd $100 - 4th - 6th $50
Pre.-Reg.: $100
★: Many Other Valuable Prizes To Be Given Hourly
TICKETS: $4.00 Advance — $5.00 At Gate
FLEA MARKET-Outside: Price Of Ticket
TAILGATERS: We Have A New Area For You, So Bring It On!
FLEA MARKET- Inside: Price Of Ticket + $9.00 (per 6′ table) rental.
LADIES: Our Xmas Craft Vendors Will Be Here Again!
TALK-IN: 145.250 (-.600) — 146.520 - Simplex

— Dealers & Flea Market —

For General Information Or Advance Tickets

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Call Between 9:00 P.M. - 11:00 P.M.

Send In Your Advance Registration Now and Save $1.00 per ticket. Your Tickets Will be held at the gate for you to pick up upon arrival Saturday morning. SAVE $1.00 and be eligible for Pre-Registration Drawing. SEND IN THE COUPON WITH YOUR CHECK TODAY!!

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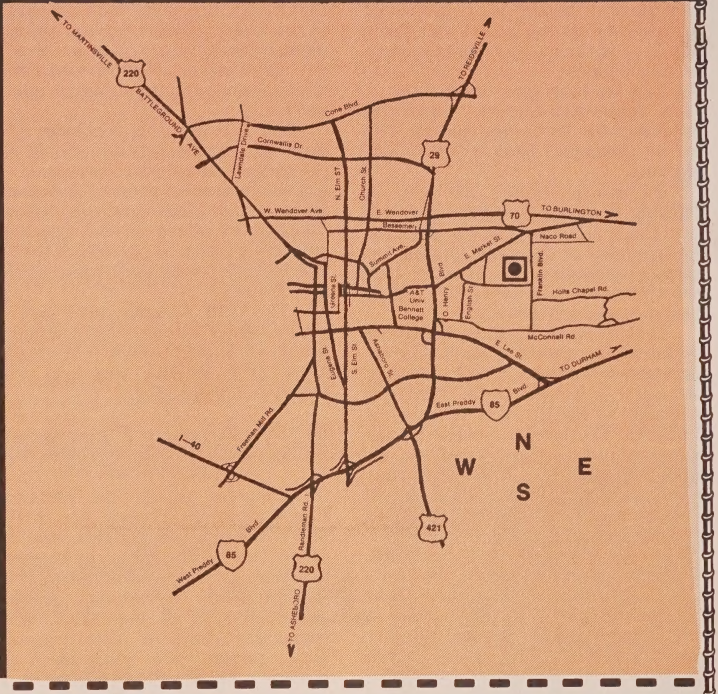
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Pre-Registration Form

Please Pre-Register me for the Greensboro Hamfest, November 22-23.

Enclosed is my check for: ⋆ *Please Send S.A.S.E. - TNX*

______ ☐ **Hamfest Tickets @ $4.00 ea.** .... $ ______

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Total ...... $ ______

NAME ________________________ *CALL* __________

ADDRESS ________________________________

CITY ______________ *STATE* __________ *ZIP* __________

•**Monies must be received in Greensboro no later than November 15, 1986.**

Make all checks payable to the **GREATER GREENSBORO HAMFEST.**

FCC News and Highlights

Novice Enhancement On Track - Moving

According to the ARRL letter, the Novice Enhancement FCC Docket has been placed on the "first track" within the FCC. The work schedule for the Special Services Division calls for completion by November 15, at which time the draft Report and Order would be forwarded to the Chief, Private Radio Bureau, and then to the Commissioners for consideration.

If everything goes as planned, it would appear that there is a reasonable possibility for Novice Enhancement to be in Amateur Radio's Christmas Stocking.

Of course, there's no way of knowing in advance exactly what will be in the final rules. However, given the positive tenor of the comments filed, it seems reasonable to assume that something generally similar to what has been proposed will emerge.

Earlier, in its Reply Comments to Docket 86-161, the ARRL said: "Most in the amateur community seems to agree that some expansion of the privileges available to Novice class licensees is desirable. The level of support in the comments for the Commission's proposals was high. . . it would thus appear that the Commission's proposal is on the 'right track' and should be finalized essentially as is."

In their reply comments, ARRL made two suggested modifications: (1) change the proposed Novice subband at 1246-1260 Mhz to 1270-1295 Mhz to correspond with the existing voluntary band plan. (2) The ARRL again suggested a two-examiner requirement for the Novice class license, in view of the increased privileges to be made available to Novice licensees.

Automatic Control For Packet

The FCC has acted in PR Docket 85-105 to make permanent the provisions of the temporary waiver issued earlier in the year permitting network amateur stations, transmitting digital communications on VHF and above. The communications are to be using the AX.25 packet protocol, and may be operated under automatic control while retransmitting third-party traffic.

CVRA - SouthEastern Repeater Association, Inc.

FCC Dismisses Stoner Petition on 6-Meters

The FCC has dismissed a petition for rulemaking filed by Donald Stoner, W6TNS, which sought to create a new public digital radio service in the 52 and 54 Mhz. portion of the 6-Meter Amateur band.

The Commission in its denial noted that the entire 6-meter band is allocated to the Amateur Radio Service, and ITU regulations do not provide the U.S. with any additional or alternative allocation which would permit a different type of service.

The Commission concluded that dismissal of the petition should not discourage alternative proposals to establish a new computer hobbyist radio service and that hobbyists should continue to assess various spectrum alternatives such as portions of the 902 and 928 Mhz. frequency band for this type proposal.

The ARRL probably said it best, "A good radio service for computer hobbyists already exists -- it's called AMATEUR RADIO, and any new service is unnecessary."

ECPA Passes Congress

— Compiled from ARRL Letter

Congress passed the Electronic Communications Privacy Act of 1986 and by the time you read this, should be signed into law by President Reagan.

This new legislation will prohibit eavesdropping on certain communications such as electronic mail, computer-to-computer data transmissions, private video conferences and cellular radio. The bill still creates an unwarranted expectation of privacy on the part of, for instance, cellular telephone users, but penalties for a first offense of intentionally listening to that service have been dropped to a $500 fine only.

Scanner operators who hear a protected communication and tune away from it without acquiring its content will not have violated the new law. The bill also toughens penalties against video pirates such as "Captain Midnight," a man who briefly jammed a satellite TV signal to protest signal scrambling.

Sections of the bill about which amateurs were most concerned at the outset have been modified and it does not appear to inhibit amateur operation as such.

It will still be legal to monitor the radio portion of a cordless telephone call or a tone-pager; any marine and aeronautical radio communications; any communication transmitted "for the use of general public;" any Amateur, CB, or General Mobile radio transmission; and any governmental, law enforcement, civil defense, private land mobile or public safety communications, including police and fire, which are readily accessible to the general public.

(Continued on Page 39)

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Minutes of August CVRA-SERA Board Meeting

The August 30, 1986 meeting of the Officers and Directors of CVRA-SouthEastern Repeater Association was called to order by President Carter Cogle at 8:10 P.M. at the Holiday Inn in Shelby, N.C.

Nominating committees for Directors should be sent to the Secretary by September 28, 1986. The Directors of each state will pick the members to serve on the committee. Lindsay said Georgia is sending letters stating the Georgia Directors will serve again unless someone else is nominated.

Lindsay Cleveland, appointed as stand-in for the director from Georgia, said coordination certificates need to go out. Repeater owners were concerned if coordination was correct and would like certificates.

Danny Hampton, Director from North Carolina said things are going well. He has more request for 2 meter pairs than he can fill. At the mid-winter meeting, Danny was appointed chairman of a committee to check into whether CVRA-SERA should charge for coordination. He found commercial coordinators do not all charge the same rate. It depends on the type of business and the rate can be from $40.00 to $200.00.

After much discussion, Wayne made a motion to table any suggestion of talk for the time being until things in the future merit such. This received a second by Danny and an approval of the group.

Tom King of the Florida Repeater Council reported on an idea for temporary coordination. Repeater owners would be given 6 months to get the repeater on the air and this will leave coordinators a way out in case of problems. He thinks Florida may institute something along that line.

Wayne needs color slides to use on the front cover of the Journal. Any-one having anything suitable should send them to Wayne. He said he had to calm Sharon down so she wouldn't sell so many advertisements.

David Ward passed out listings of members and pads of membership applications with the new rates. The Greensboro mailing address is being phased out and everything should be sent to the Winston-Salem address.

Ray Adams reported a balance of $4159.63, less the cost of the meeting in Shelby. Ray suggested buying a new printer for David which would cut the cost of printing lists from 2 hours and 20 minutes to about 13 minutes. Wayne asked if SERA can afford it and Ray thinks we can. After much discussion, Danny made a motion to purchase a printer, leaving the decision up to David, Ray and Lindsay as to what is purchased and when. After a second by Karl the group approved the motion.

The January Board Meeting will be held in Knoxville, with the exact date to be announced later.

The group discussed changes to be made in the coordination guidelines.

A motion was made by Wayne and seconded by Danny to have nominal separation of 25 miles or discression of frequency coordinator on adjacent 20 kcs repeaters. Wayne also made a motion to have nominal separation for 75 miles or discression of frequency coordinator on adjacent 15 kcs repeaters and 100 miles on co-channel repeaters. This received a second by Karl and was approved.

Danny made a motion we accept Florida's guidelines and give 6 months temporary coordinations to get a repeater on the air. Coordinators should be notified when repeater is on and extensions will be given if needed. If it is not on in 6 months, start de-coordination of frequency. Wayne gave the motion a second and was approved by the group.

Danny made a motion to use the same guidelines as before on policies of ERP versus height above average terrain or discresison of coordinator. This received a second by Karl and a vote of approval.

Any change of antenna structure of ERP will require re-coordination. The owner needs to request changes before he even starts.

Sharon made a motion with a second by Wayne that owners or trustees of all repeaters known to be on the air receive a packet of the guidelines when completed.

Wayne will start a rewrite of coordination policy and send it out for approval.

At 10:25 P.M. a motion was made by Karl with a second by Nita to adjourn the meeting. This received a vote of approval.

Respectfully submitted,
Nita Morgan, Secretary

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45 Watts. The IC-28H provides a full 45 watts of powerful output. The **IC-28A** 25-watt version is also available. Both units have a selectable low power.

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Full Membership and Repeaters Reach New Records for CVRA-SERA

— by Gerry Butts, KB4SEL
Full Membership, Chrmn.

The 1,000 repeater milestone was passed in CVRA-SERA territory this last quarter and Full Member repeaters reached only 2 shy of 600 for the 1986 calendar year. A total of 1009 repeaters are listed this issue in the Repeater Index within the Organizations Territory. Full Membership exceeded 400 memberships, representing 598 repeaters. This figure includes out of territory memberships also. CVRA-SERA closes the year with a 52% Full Member representation, a majority but lower than the organization would like to see in membership repeater support.

In the various State repeater breakdowns (see chart below) the final tally (all repeaters) in each state represents the sum achieved after subtracting repeaters that have gone off the air, and adding new repeaters coordinated and coming on the air. A net gain of 16 repeaters shows since April. By State: N.C. + 4, S.C. + 3, VA. + 6, W. VA. + 2, TN. + 3 and GA. -2.

In terms of numbers of repeaters, North Carolina continues to have the most with 234, followed by Tennessee with 205, Georgia with 188 and Virginia with 176.

In Full Memberships, East Kentucky leads with 81% of its repeaters as Full Members. Georgia is 2nd with 66% and North Carolina third with 63%. In numbers of Full Member repeaters, North Carolina leads with 147, Georgia with 125 and the rest of the states fall back below 100.

Four Districts failed to achieve a 50% repeater membership. They are: S.C. with 48%, VA. with 44%, W. VA. with 44% and TN. with 31%.

A reminder to repeater owners. A Full Membership application is printed in this issue of the Journal. It may be used for joining for the first time as a Full Member repeater, renewing after being a non-member for a year or more, and also (this is a new system) repeaters who WERE Full Members in 1986, must use this form to RENEW for 1987. NO renewal forms will be mailed this year. See instructions for filling out the forms elsewhere in this issue of the Journal.

```
CVRA-SERA FULL MEMBERSHIP FROM 1983 TO DATE.     CORR 10-9-86
                                                 THRU APPL #419
            -------------------REPEATER----------------
           FINAL    FINAL    FINAL    CURR.    '86%     ALL    CURR
STATE       1983     1984     1985     1986     TTL    RPTR    APPL

N.C.         100       83      149      147     63%     234      96
S.C.          24       35       56       43     48%      90      34
VA.*          58       60       92       88     44%     176      59
W.VA.         28       21       41       40     44%      90      30
TENN.         47       58       85       63     31%     205      40
GA.**          9       18      109      125     66%     188      88
E.KY***        1        4       18       21     81%      26      19
ALA.****       1        1        4       67      --      --      52
FLA.****      --       --       --        4      --      --       1
TOTALS       268      280      554      598     52%    1009     419

* TTL.VA.RPTRS.ALSO INCLUDE N.VA. - T-MARC TERRITORY)
**GA.ASSUMED DISTRICT STATUS IN 3rd QTR.OF 1985.
***K.KY.ASSUMED DISTRICT STATUS IN MID 1985.
****ALA.& FLA. NOT SERA DISTRICTS.
1986 % OF SERA FULL MBR DOES NOT INCL. ALA.& FLA.ONLY  DISTRICTS
```

Coordination Policy Rewrite

With changes in FCC policies regarding Coordinating Councils, the CVRA-SERA Board of Directors charged Wayne C. Williams, K4MOB, Editor of the Repeater Journal with the task of re-writing the official Coordinating Policy of the organization.

The new document is to obtain all the procedures in coordination, de-coordination, policies regarding the handling of interference, band plans, splits and many other important facets of coordination frequencies in the VHF/UHF spectrum.

The first rough draft of the new policy, some 8 single spaced pages long has been mailed to the board for their input. The various FCC Field offices involved with CVRA-SERA territory also received copies with requests for input.

The rough draft will be corrected with all input, and a second draft will be mailed the Board of Directors in December.

If everything runs on schedule, the final draft should be in the hands of the Board, in time for them to digest the contents and be ready to vote on the Policy statement at the January Board meeting.

The Repeater Journal plans to print the coordinating policy, along with possibly band plans in a special pullout section in the February 1987 issue. All amateurs, especially repeater owners will want to save this valuable information for future use.

A Letter to Virginia Full Member Repeaters

— from Wally Burkette, WA4KXV

I have been nominated for Virginia Director by the official Nominating Committee. I have the experience and training to become the new Director of Virginia, and if unopposed and elected, will do the job to the best of my ability. Your support will be greatly appreciated.

I first received my amateur radio license in 1963. I was interested in ARES and local city and county community activities. I built the first VHF repeater in the Tidewater area in the mid 60s. I presently operate or maintain four VHF and one UHF repeater in the Virginia Beach area.

I am very active in the Virginia Beach Amateur Radio Club. I was past president and vice president. In 1982 was voted **Amateur Of The Year,** for the Virginia Beach Amateur Radio Club. I presently serve on the board of directors.

As an ARRL representative, I was the Emergency Coordinator for the city of Virginia Beach. Presently I am the Assistant E.C.

I am very active in the hamfest committee. I have been past President and Vice-President of Tidewater Radio Conventions Inc. I am presently Convention Director.

I have been a full member of CVRA-SERA for 10 years. The past 7 years, I have served on the Frequency Coordinating committee. For 5 years as a Assistant Coordinator for the Tidewater area. The past two years I have been Vice Director for Virginia. I sincerely hope I may become your Director.

Full Membership For Repeater Sponsors

In life, a privilege has its payback. In Amateur radio, privileges come many ways and many forms. One thing that has kept your VHF/UHF privileges so nice, has been the foresight of those folks in 1971 who felt some coordination was necessary for all the repeaters which were to come. For 15 years, CVRA-SERA has worked toward that end.

You as a repeater sponsor can help continue this effort, by signing up as a Full Member of CVRA-SERA. Full Members are eligible to hold offices, vote and are acknowledged as a CVRA-SERA supporter in our repeater index. Two members whom you name will also receive the Journal. Full Membership for the calendar year 1987 is only $15.00. We hope you will join, and tell your fellow repeater owners to join. Its a good investment for the future. A form for membership is included in this issue.

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CVRA-SouthEastern Repeater Association, Inc.

FINANCIAL REPORT AS OF SEPTEMBER 30, 1983, 1984, 1985, and 1986

	1983	1984	1985	1986
REVENUE				
Advertising	$ 4,951.75	$ 5,127.50	$ 5,222.35	$ 5,827.75
Associate membership dues	7,890.00	7,408.25	8,791.63	9,548.00
Full membership dues	1,941.00	1,450.00	2,516.50	2,488.75
Decals			224.50	63.50
Postage - includes HOT-P			87.00	205.50
Interest			24.29	190.66
Hats			101.50	123.37
Contributions				182.00
Other	16.25	49.75	23.00	83.64
TOTAL REVENUE	$14,799.00	$14,035.50	$16,990.77	$18,713.17
EXPENSES				
Journal mailing	$ 1,817.98	$ 1,856.65	$ 1,588.25	$ 2,509.74
Journal printing	10,833.61	11,028.31	11,436.56	9,427.53
Miscellaneous expenses	- 0 -	2.35	578.78	- 0 -
Director's meetings	600.51	534.19	768.68	1,428.90
Office expenses	106.49	21.25	234.30	31.35
Amortization of copy machine	448.00	448.00	448.00	448.00
Postage other than journal	204.74	101.86	419.00	321.44
Printing other than journal	995.69	242.17	987.99	168.32
Telephone	351.46	241.24	275.47	465.62
TOTAL EXPENSES	$15,358.48	$14,476.02	$16,737.03	$14,800.90
REVENUE OVER (UNDER) EXPENSES	($ 559.48)	($ 440.52)	$ 253.74	$ 3,912.27
Balances, beginning of year				
Expenses advanced	$ 700.00	$ 800.00	$ 900.00	$ 950.00
Cash in bank	1,135.60	2,507.39	1,413.04	2,107.05
Invested in copy machine	2,240.00	1,792.00	1,344.00	896.00
	$ 4,075.60	$ 5,099.39	$ 3,657.04	$ 3,953.05
EQUITY TO ACCOUNT FOR	$ 3,516.12	$ 4,658.87	$ 3,910.78	$ 7,865.32
Less: Expenses advanced	$ 800.00	$ 900.00	$ 900.00	$ 900.00
Invested in copy machine	1,792.00	1,344.00	896.00	448.00
	$ 2,592.00	$ 2,244.00	$ 1,796.00	$ 1,348.00
CASH IN BANK	$ 924.12	$ 2,414.87	$ 2,114.78	$ 6,517.32

Respectfully submitted

Ray Adams

Ray Adams N4BAQ
Treasurer

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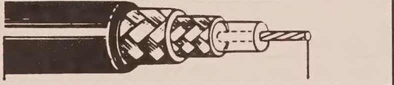

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Full Member Renewal Application In Journal

This year we're trying something different. Instead of mailing full membership applications to members for renewal, we are going to print the application in this issue of the Journal. (on next page).

If you were a Full Member in 1986, and your repeater information is on file with your Director, you need only fill out the top half of the application. Remember you will not be receiving a renewal notice in the mail.

If you are a repeater sponsor, not a member in 1986, and would like to join CVRA-SERA as a Full Member for 1987, fill out the application completely, top to bottom so we will have information on your repeater.

Full Membership for 1987 is $15.00. This entitles two persons, which are named on the application to be Full Member voting representatives of your repeater in CVRA-SERA. Each of these two persons will receive the Repeater Journal in 1987. In addition, your repeater will be listed as a Full Member (a star beside your listing) in the repeater index.

Please be sure to list ALL your repeaters on the application, otherwise they will not be counted as full members. (We cannot cross-reference from previous years). If you need more space in listing your repeaters (you have more than four), enclose a separate sheet of paper with the additional repeaters listed.

Be sure you include in the top listing, the city or area you want your repeater listed. If you are changing it from how it has been listed, be sure to write in the old listing too, so we can find it. When listing the frequencies, be sure to list your INPUT frequency first, and your OUTPUT frequency second, if you mix it up, the computer will run it exactly like you list it, upside down or however.

Remember, NO RENEWALS FOR FULL MEMBERSHIP will be mailed this year. Merely fill out the one on the back side of this page, and send it in with your $15.00 membership fee.

IMPORTANT NOTICE!!

All Repeater Owners/Operators

A Full Membership Form is Printed On the Next Page. You are invited to support CVRA-SERA as a Full Member repeater. Please fill out the form on the back side of this sheet and mail it with your 1987 Calendar year dues of $15.00.

CVRA-SERA is entering it's 16th Year of Coordinating Repeaters

Your support assures us of continuing this very important operation of making maximum usage of our UHF/VHF Bands.

If you Join, we list you as a supporting member in our Repeater Index. Two people you name each receive the Repeater Journal. These two people, Full Members, also may hold office in CVRA-SERA and have voting privileges.

Your support helps us Help You!
Fill Out the form and send it in.

THIS IS YOUR 1987 RENEWAL APPLICATION FOR FULL MEMBERSHIP - NO RENEWALS WILL BE SENT BY MAIL.
IF YOU WISH TO JOIN CVRA-SERA AS A FULL MEMBER REPEATER - YOU MAY ALSO USE THIS FORM

DO NOT WRITE ABOVE THIS LINE

CVRA-SouthEastern Repeater Association, Inc.

FULL REPEATER MEMBERSHIP APPLICATION FOR YEAR ________

City/Mtn (Max 14 Char)	Callsign	Input Freq.	Output Freq.	
				No. 1
				No. 2
				No. 3
				No. 4

Name two Full Member Representatives to CVRA-SERA (ONLY These Two Persons Receive A Journal)

Name ____________ Call ________	Name ____________ Call ________
Address ____________	Address ____________
City ________ State ______ Zip _____	City ________ State ______ Zip _____
Phone: ( ) ____________	Phone: ( ) ____________
ARRL Member ( ) Yes ( ) No	ARRL Member ( ) Yes ( ) No

Membership: New______ Renewal______ Fee Enclosed (   ) Yes (   ) No Amount:________

Repeater Sponsor ____________________ Date ________

FULL MEMBERS OF 1986 COMPLETE ONLY TOP PORTION - OTHERS FILL OUT APPLICATION COMPLETE.

Date Rptr. Placed in Service: Experimentally ____________ Reg. Svc. ____________

Was your freq coord? (   ) Yes (   ) No (If No, please explain) ____________

ACTUAL REPEATER LOCATION: (Mtn./City)____________

Repeater Coverage: (Cities & Counties)
BASE: ____________

MOBILE: ____________

Transmitter ____________ Receiver ____________ Duplexer ____________

Antenna ____________ Duplexed: (   ) Yes (   ) No Split Site: (   ) Yes (   ) No

Split Site Linkage type ____________ (If Radio, Frequency used) ____________

Linked with any other repeaters: (   ) Yes (   ) No Linking Freq. ____________

Name (if any) other repeaters linked ____________

ANTENNA: Height above MSL ____________ Height AAT ____________ Power (ERP) ______

REPEATER: Open____ Closed____ AUTOPATCH: Open (A)______ Private (PA)______ Emerg. (EA)______

If closed, Access is: Tone Burst__________ Hz, Touchtone__________ Buttons

Repeater I.D. is: CW______ Voice______ Rptr. control via: ____________

Other information ____________

Repeater Membership Fees:
All Memberships Expire Dec. 31

$15.00 annually - payable Jan. 1

Mail Application & Check To:

SERA REPEATER MEMBERSHIP
POST OFFICE BOX 24292
WINSTON-SALEM, N.C. 27114-4292

Thank you!

If you were a 1986 Full Member, complete only the portion of this form above the dotted line. If you are a new member, or are renewing since 1985, complete the entire form. Use an additional sheet if more space is needed-To avoid delays or mistakes fill out the Full Membership application as applicable to you, as accurately as possible.

Looking back

—by David Ward, KA4LVO

November 1976

The November 1976 Repeater Journal ended the layout style that only long time members of "CVRA" know. This was the last issue with a story on the front page. Beginning with the next issue, readers would notice a picture on the cover. By the way, the cover story this issue was written to spark interest in 220 mHz activity.

In other news affecting the CVRA, more discussion was given regarding the new '3-district' organization. The minutes of the September 4, 1976 annual meeting of the board were printed. Seventy-one repeaters were now full members. The topic of autopatch use standards was brought up. FCC liaison W4DGE mentioned that the FCC after reorganization now had 4 people dedicated to processing repeater applications. After discussion, a committee was formed to revise frequency coordination procedures. Secretary K4ARO was requested to notify the ARRL that CVRA opposed novice privileges on 144 and 220 mHz. And finally, the topic of decals came up, but any decision was put off until another meeting.

Two new FCC rules would become effective in late November. The first would eliminate the requirement to identify as 'portable' or 'mobile'. The other rule change would relieve the amateur of having to notify the FCC when planning to operate away from the licensed premise for an extended time period.

Flipping through the Journal yielded a few noteworthy items. Lindsay Cleveland, associate membership chairman reported associate membership statistics: June 1974 - 245, August 1975 - 450, August 1976 - 915. He also listed a 'help wanted' ad to recruit an assistant to help at hamfests. Editor Bill Parris listed an opening for an advertising editor to help him out. Business card ads now numbered 14, and there were four major advertisers in this issue. One of these was for next year's 1977 Metrolina Hamfest sponsored by the W4BFB group. . .

As we are about to enter the season between hamfest seasons, many of us can sit back and take a break. As for myself, there is much SERA work to be done during the winter months, so my break will be short indeed! Best wishes to you and your families during the upcoming holiday seasons.

Norfolk FCC Office Moved in September

On September 8, the Norfolk, Virginia office of FCC moved from their old Military Highway address. The new address is 5656 Shell Road, Virginia Beach, Va. 23455-3725. Phone number with recorder: (804) 363-0900. The Public phone number is (804) 441-6472.

Public inquiries concerning telecommunications matters, complaints of electronic interference and schedules for radio operator examinations should be directed to the new address. Office hours are 8:00 a.m. to 4:00 p.m.

REPEATER-CLUB-NET SERVICE PAGE

The Amateur News and Information

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VIRGINIA

RICHMOND

ARRL/VEC Amateur Exams at the J. Sargeant Reynolds Community Collge, 1651 East Parham Road. Contact Ron Bolton, WU4G, Rt. 4, Box 455, Glen Allen, Va. 23060. (804) 798-5191. Limited Walkins. Please register if at all possible.

Exams cannot be given unless the original license is in hand. Never mail original license with application for pre-registration.

For the special session the day before Frostfest, limited walk-ins will be allowed. Contact Ron Bolton, WU4G, Rt. 4, Box 455, Glen Allen, Va. 23060 (804) 798-5191.

SPECIAL EXAM DATE
JAN. 17, 1987 - 9:00 a.m.

SOUTHEASTERN VIRGINIA

December 6, Portsmouth Amateur Radio Club - Contact: George Parsons WB4BAB, 4800 Manor Ave., Portsmouth, VA 23703.

To apply, send form 610 and copy of current license with $4.25 check, payable to ARRL/VEC to contact person. Enclose SASE for confirmation. Cut-off date for applications is 30 days prior to test.

GEORGIA

AUGUSTA

ARRL/VEC examinations will be held in Augusta. For information contact: C.L. "Ace" Norton, NA4I, 2704 Lumpkin Rd., Augusta, Ga. 30906. Phone (404) 798-5050.

AUGUSTA SCHEDULE November 6

TENNESSEE EXAMS

R.A.C.K VE TEAM

For prior registration send: Copy of license, form 610 completed, check for $4.00 payable to WCARS/VEC, SASE. Sent pre-registration to: Ray Adams, N4BAQ, 4325 Felty Drive, Knoxville, Tn. 37918. All tests begin at 10 a.m. at the Tennessee Inst. of Electronics, 3203 Tazwell Pike in Knoxville, Tn. Cutoff dates for exams is day before exams.

KNOXVILLE SCHEDULE

November 15
December 20

CHATTANOOGA VE EXAMS

Exams in Chattanooga will be given at the Chattanooga Board of Realtor's Building on Amnicola Highway. Contact Bill, N4BMR (ARRL/VEC). Dec. 7 - Board of Realtors Bldg.

OTHER TENNESSEE EXAMS

November - Jasper-Contact KD4XX

NORTH CAROLINA

KERNERSVILLE

Walk-in VE exams for all levels are held each 1st Saturday at the Public Library on East Mountain St. in Kernersville. (Take Rt. 66 exit off I-40, go North to Mountain St. and turn left.)

Sign up time starts at 9:00 a.m. local time and exams start promptly at 9:30 a.m. No advance registration is required. Bring completed 610 form, copy of license and original license, and appropriate I.D.

No one permitted to enter room while exams are being run, so come early. Park in large lot behind Library, nera police station and enter the basement door at rear of Library.

KERNERSVILLE SCHEDULE
First Saturday of the month - 9:30 a.m.

AE4N/MARK 4 VEC
Gbo/Jamestown

FCC exams to be conducted twice a month in 1986, at the GTCC, Davis Hall in Jamestown, N.C. Walk-in--Cost $3.00. Bring original and a copy of license, and some positive I.D. All classes of license exams are given and all testing materials are furnished. Any questions may be directed to Hugh Brunson (919) 852-1087 1900-2000 EST daily.

Davis Hall at GTCC is 6 miles south of Greensboro, N.C. Take Exit 118 off I-85 and follow GTCC signs. Talk-in also available on 146.61 and 145.25 if needed.

JAMESTOWN SCHEDULE
Nov. 22 - 9:00 a.m.
(At Gbro Hamfest Site)

GOLDSBORO

Herman Perkins, W4TUG announces VE examinations to be held in Goldsboro, N.C. at the Wayne Community College. Pre-registration is required by November 8th. If needed, write Wayne Co. AR Assoc., P.O. Box 1578, Goldsboro, N.C. 27530. Include S.A.S.E. if 610 form needed. Enclose $4.25 fee.

GOLDSBORO SCHEDULE
November 15 - 10 a.m. (Pre Reg 11/8)

Address Change - Georgia Assistant Director

We received an address change too late to get it on the Journal Back cover (since it was going full color).

David Shiplett, WL7ACY, Assistant Director to Georgia has this new address. Please do not use the address on the back of the Journal.

David Shiplett, WL7ACY, 107 Mossy Lake Rd., Perry, Ga. 31069, (912) 987-3000.

New P.O. Box

Journal readers are reminded that CVRA-SERA has a new Post Office address. ALL membership requests, information or applications for Full or Associate membership should be sent to this new address to avoid any unnecessary delays.

The new address is: CVRA-SERA MEMBERSHIP, POST OFFICE BOX 24292, WINSTON-SALEM, NORTH CAROLINA 27114-4292.

Requests for Frequency Coordination, complaints or interference reports should still be sent to your individual Director whose name and address appears on the back cover of the journal.

News copy should be mailed to the Journal Editor, and advertising copy sent to the Advertising Manager as before.

WEST VIRGINIA

FAIRMONT

Amateur exams will be given on the dates listed below at Fairmont, WV. For further information, contact KU8C, Robert Robinson, Rt. 3, Box 302, Fairmont, WV. 26554, phone (304) 366-0132. On the exam dates listed, pre-registration dates are listed in parenthesis.

1987 Examination Schedule

10 FEB (13 Jan)
12 MAY (14 Apr)
11 AUG (14 Jul)
10 NOV (23 Oct)

Bluefield VE Team

All exams are held at Bluefield State College on US 52 in Bluefield, West Virginia, at the Basic Science Building. This building is the first building on the right as you enter the main campus.

Examinations are WALKIN, and are offered for all classes, novice through extra. Code tests are conducted using headphones with individual volume adjustments.

Examinees should bring a check or money order for $4.00 payable to "ERARC/VE", a properly filled-in FCC form 610 (June 1984 or later), two items of identification (one with photograph), and a PHOTOCOPY of FCC license. If you are still operating on temporary authority since your last examination, you **must** bring a copy of your license AND your temporary authority.

The examinations will all begin at 9 am for ALL classes, and will be held on the following dates, which are the second Saturday of the month in which this magazine is published

Saturday, November 8, 1986
Saturday, February 14, 1987
Saturday, May 9, 1987

THE SALE YOU'VE BEEN ASKING FOR IS BACK AGAIN! Our Third Annual

SUPER SANTEC WEEKEND

We're Cutting Prices to the Bone

FOR 46 EXCITING HOURS

DECEMBER 5, 6, 7

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PLUS Special Prices on Kenpro Rotors, Keyers, Accessories, Mobile Antennas, Rubber Ducks. . . Everything in the building is on sale "Super Santec Weekend"

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Directions: I-40 East of Kernersville (milepost 207) take Sandy Ridge Road exit. Go South a few yards and turn right on Norcross road beside the Neighbors Fuel Center. Take the first left on Lakedale Road and go about 2 blocks. We're on the right, the one with the tall telephone poles. Store hours - same as sale hours this weekend.

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6.50 /2.525	DTM	CLARKSBURG	WV
7.43 /4.93	M	LYNCHBURG	VA
5.01 /5.01	ROJ	ENTERPRISE	AL
	JF	ADEL	GA
	CNV	AUGUSTA	GA
	EAW	CLARKSVILLE	GA
	KAU	COHUTTA	GA
	ABT	COLUMBUS	GA
	GQX	CUMMING/SAWN	GA
	GQX	FORSYTH	GA
	ULJ	HAMILTON/PIN	GA
	TXT	HAMPTON	GA
	ICT	PERRY	GA
	ICT	ROBERTA	GA
	BFB	CHARLOTTE	NC
	CEB	CONCORD	NC
	CYP	GOLDSBORO	NC
	BWC	RALEIGH	NC
	ITL	RALEIGH	NC
	RXG	SAURATOWN MT	NC
	OKW	SPIVEY MTN	NC
	FX	ANDERSON	SC
	LYF	CHARLESTON	SC
	EOY	COLUMBIA	SC
	TKM	CONWAY	SC
	ULH	FLORENCE	SC
	WJR	LANCASTER	SC
	P	SUMTER	SC
	BFS	ELIZABETHTON	TN
	NK	KNOXVILLE	TN
	YON	KNOXVL/CROSS	TN
	MJM	PIKEVILLE	TN
	YXA	SHORT MT	TN
	TFZ	CHARLOTTESVI	VA
	TFZ	CHARLOTTESVI	VA
	PGI	COVINGTON	VA
	FRV	FORK MTN	VA
	OB	FREDERICKSBU	VA
	PB	GARRISONVILL	VA
	ARO	GLEN ALLEN	VA
	UMI	HAMPTON	VA
	UMI	HAMPTON	VA
	LKQ	LYNCHBURG	VA
	TSC	MIDDLEBURG	VA
	AG	PARKSLEY	VA
	FHL	ROANOKE	VA
	CSG	STEPHENS CIT	VA
	KXV	VIRGINIA BEA	VA
	JFI	WASHINGTON,	VA
	BLD	WAYNESBORO	VA
	FQR	WOODBRIDGE	VA
	VR	WYTHE/PULASK	VA
	EUV	HUNTINGTON	WV
	FQJ	LOGAN/BLAIR	WV
	BHI	MORGANTOWN	WV
	SLI	ST ALBANS	WV
5.03 /5.03	BXO	LAGRANGE	GA
5.05 /5.05	ICT	MACON	GA
	ACY	WARNER ROBIN	GA
5.07 /5.07	TH	COLFAX	NC
	USE	WOODBRIDGE	VA
5.09 /5.09	MM	ALBANY	GA
	GQX	AMICACOLA MT	GA
	KAU	COHUTTA	GA
	EO	FAIRMONT	GA
	G	ROME	GA
4.51 /5.11	A	MONTGOMERY	AL
	TUN	AUGUSTA	GA
	VTA	DECATUR	GA
	ITL	COLUMBIA	NC
	RXG	SAURATOWN MT	NC
	CB	MYRTLE BEACH	SC
	JSD	KNOXVILLE	TN
	YPE	RICHMOND	VA
	MCR	SALT ROCK	WV
4.53 /5.13	AFI	OZARK	AL
	SEX	NEWNAN	GA
	VLP	VALDOSTA/TIF	GA
	YNF	AHOSKIE	NC
	CS	GREENWOOD/HO	SC
	CMY	CHATTANOOGA-	TN
	OAK	LAFOLLETTE	TN
	FHE	BUCHANNON	VA
	VL	GALAX/LKOUT	VA
4.55 /5.15	AHN	BESSEMER	AL
	IWZ	PIKEVILLE	EKY
	MM	ALBANY	GA
	AQL	ATLANTA/GA T	GA
	LI	MILLEDGEVILL	GA
	UDS	MORENTN/HI P	NC
	RJC	DECATUR-PONE	TN
	HCK	FRANKLIN	TN
	ARO	CREWE	VA
	DBN	MARMET/BEE M	WV
	FSE	MARTINSBURG	WV
4.57 /5.17	DIW	JONESBORO	GA
	JWO	NEWTON	NC
	EKK	OXFORD	NC
	QJF	COLUMBIA	SC
	SK	LENOIR CITY	TN
	LHO	MURFREESBORO	TN
	X	BOLT MT	WV
4.59 /5.19	IQT	BIRMINGHAM	AL
	ULJ	HAMILTON/PIN	GA
	BVW	MT MITCHELL	NC
	XX	JASPER	TN
	DOR	LEBANON	TN
	YFX	WHEELING	WV
4.61 /5.21	EPK	TYRONE	GA
	GGK	LEWISVILLE	NC
	ITL	TRENTON	NC
	NEP	GASTON	SC
	KFD	KNOXVILLE	TN
	MS	KILMARNOCK	VA
	FEQ	HUNTINGTON	WV
4.63 /5.23	TJX	BIRMINGHAM	AL
	PPM	MIDDLESBORO	EKY
	JJK	DALTON	GA
	NLX	SAVANNAH	GA
	BFB	CHARLOTTE	NC
	RA	MUFREESBORO	TN
	DBB	BEDFD/APL OR	VA
4.65 /5.25	KQK	FOREST PARK	GA
	AZM	GOLD HILL/GB	NC
	URP	CHARLESTON	SC
	DRL	FISHERVILLE	TN
	AJS	NASHVILLE	TN
5.65 /5.25	BZJ	DALTON	GA
4.67 /5.27	PN	WALESKA/PNLG	GA
	KNI	HENDSVL/BERW	NC
	BEA	RALEIGH	NC
	WZK	HENDERSONVIL	TN
	CJX	SEV/SHIELDS	TN
	JCE	MANASSAS	VA
	OG	CRAIGSVILLE	WV
4.69 /5.29	ICN	PRESTONSBURG	EKY
	DRQ	ATLANTA	GA
	E	ROSWELL	GA
	BFB	CHARLOTTE	NC
	FTB	GIBSONVILLE	NC
	PPD	SHALLOTTE	NC
	VCM	CHATTANOOGA	TN
	SQC	ELZ/JC/HLST	TN
	FFM	NASHVILLE	TN
	NDH	CHESAPEAKE	VA
	LND	ELKINS	WV
4.71 /5.31	JDR	ATLANTA	GA
	BDU	COLUMBUS	GA
	ITL	BURLINGTON	NC
	ITL	ROANOKE RAPI	NC
	RFA	ROCK HILL	SC
	GRC	ATHENS	TN
	SC	JACKSON	TN
	FSC	ALEXANDRIA	VA
	BZS	LAYLAND/MANN	WV
4.73 /5.33	OGE	JONESBORO	GA
	J	MT AIRY/TRNR	NC
	DFP	BAMBERG	SC
	GMT	CUMBERLAND C	TN
	TEM	KNOXVILLE	TN
	QQF	FARMVILLE	VA
	VNQ	PARSONS	WV
	GEO	WILLIAMSON	WV
5.33 /5.33	MQD	MEMPHIS	TN
4.75 /5.35	I	TUSCALOOSA	AL
	R	HARLAN	EKY
	CPL	DECATUR	GA
	EV	ROSSVILLE	GA
	AOS	CHARLOTTE	NC
	DAN	GREENVILLE	NC
	Y	HUMBOLDT	TN
	JYD	NASHVILLE	TN
	AZJ	BLAND	VA
	AQD	FALLS CHURCH	VA
4.77 /5.37	LPR	PELL CITY	AL
	ACH	COLUMBUS-RTT	GA
	IZF	JASPER	GA
	AGN	N. WILKESBOR	NC
	GZE	KNOXVILLE	TN
	IMI	GLOUCESTER	VA
	FW	BECKLEY/EOC	WV
4.79 /5.39	LJE	BESSEMER	AL
	HYB	GRIFFIN	GA
	NJ	MONROE	NC
	B	RALEIGH	NC
	TZ	CHATTANOOGA	TN
	X	GREENEVILLE	TN
	DOR	HERMITAGE	TN
	OHC	STANTONVILLE	TN
	ZIV	GALAX	VA
	EOM	WESTON	WV
4.81 /5.41	PME	ATLANTA/BELL	GA
	XO	HIGH POINT	NC
	KNU	WILLIAMSTON	NC
	TUO	GREENEVILLE	TN
	VIP	MEMPHIS	TN
	SLI	LIBERTY	WV
4.83 /5.43	QEO	DOTHAN	AL
	VBA	LINEVILLE	AL
	UPC	ATLANTA/SWEA	GA
	OLL	MACON	GA
	ITL	SPARTA/GREEN	NC
	LB	COLUMBIA	SC
	GBI	KNOXVILLE	TN
	SQT	RICHMOND	VA
	WHQ	CHARLESTON	WV
	LG	MORGANTOWN	WV
4.85 /5.45	TX	LEXINGTON	EKY
	BOC	ATLANTA	GA
	KBD	JACKSONVILLE	GA
	PLY	CROWDERS MT	NC
	WTX	DURHAM	NC
	GRW	NEWPORT	NC
	SIR	BENTON	TN
	E	SPRING HILL	TN
	SXZ	WELCH	WV
4.87 /5.47	CLA	SWEAT MTN	GA
	HAJ	KINSTON	NC
	GIC	SAURATOWN MT	NC
	OXE	INMAN	SC
	GBI	KNOXVILLE	TN
	OMO	MOUNTAIN CIT	TN
	ARK	NASHVILLE	TN
	EFJ	ARLINGTON	VA
	FG	KINGSTON/LIC	WV
4.89 /5.49	OX	LINCOLN	AL
	JA	AUGUSTA/AIKE	GA
	RWS	CORDELE	GA
	QPL	MARIETTA	GA
	ZCZ	FRANKLIN	NC
	CBI	RALEIGH	NC
	ABW	RKY RDG/WALL	SC
	KKO	MCMINVL/SHT	TN
	KOG	MEMPHIS	TN
	MOP	BLUEFIELD	VA
	MOP	BLUEFIELD	WV
6.655/6.055	ABU	BROWNSVILLE	TN
6.835/6.235	GDG	HAMILTON	GA
6.895/6.295	T	HARTWELL	GA
6.925/6.325	ASI	COVINGTON	GA
6.01 /6.61	FIZ	COLUMBUS	GA
	BDP	WARNER ROBIN	GA
	SNI	GREENSBORO	NC
	JMS	NEW BERN	NC
	GY	CHELSEA	SC
	NYK	GRNVLE/CSRS	SC
	IQM	MYRTLE BEACH	SC
	CMY	CHATTANOOGA	TN
	PCD	NASHVILLE	TN
	ATJ	BROMLEY MT	VA
	GSP	CHESAPEAKE	VA
	WWQ	LYNCHBURG	VA
6.025/6.625	UPE	UNION CITY	GA
	JWP	VIDALIA	GA
	QMK	LARNBRG/SCOT	NC
	FJX	CHESTER	SC
	ZQX	MARTIN	TN
	MZ	BLUFLD/ER MT	VA
	DAK	NEW MARKET	VA
6.04 /6.64	YZY	PINEVILLE	EKY
	KD.	AMERICUS	GA
	LWT	AUGUSTA	GA
	FWD	CARROLLTON	GA
	GVG	WAYCROSS	GA
	YAO	HENDERSONVIL	NC
	DW	RALEIGH	NC
	GIC	WINSTON-SALE	NC
	P	SUMTER	SC
	RX	CROSSVILLE	TN
	GYS	MEMPHIS	TN
	NTM	NASHVILLE	TN
	WIC	FINCASTLE	VA
	BIW	MARION	VA
	QEY	RICHMOND	VA
	LND	BUCKHANNON	WV
	EZR	HUNTINGTON/C	WV
6.055/6.655	NFP	MARIETTA	GA
	CEB	CONCORD/KANN	NC
	VTX	ELIZABETH CI	NC
	F	CHATT/SIGNAL	TN
	PDP	ALEXANDRIA	VA
	ISI	ALTAVISTA	VA
6.06 /6.66	BKM	MACON	GA
6.07 /6.67	TNS	GREENVILLE	AL
	VHF	HAZARD	EKY
	NSO	GAINESVILLE	GA
	EQL	JESUP	GA
	ZIN	BURLINGTON	NC
	TMT	CHERRY MT	NC
	SJ	HALIFAX	NC
	ILW	BRISTOL	TN
	UCE	COOKEVILLE	TN
	BGW	LAFOLLETTE/W	TN
	NTM	NASHVILLE S.	TN
	HZS	BARREN SPRIN	VA
	ZR	LEXINGTON	VA
	NTG	WILLIAMSBURG	VA
	JNU	RAVENSWOOD	WV
6.08 /6.68	NAH	MUSCLF. SHOAL	AL
6.085/6.685	OWS	FOLEY GULF S	AL
	IWL	ADAIRSVILLE	GA
	UWN	FAYETTEVILLE	GA
	NBR	GRIFTON	NC
	O	STATESVILLE	NC
	CO	NEWBERRY	SC
	Q	WAVERLY	TN
	HTA	VIENNA	VA
6.10 /6.70	FIV	ANNISTON	AL
	JO	GRAYSON	EKY
	MM	ALBANY	GA
	IZF	JASPER	GA
	DOJ	MILLEDGEVILL	GA
	NLX	SAVANNAH	GA
	CID	DUNN	NC
	PAX	LANCASTER	SC
	UFT	FRAYSER	TN
	UOT	MANCHESTER	TN
	YGM	UNION CITY	TN
	WQS	DANVILLE/WHT	VA
	BHH	DUFFLD/POWLL	VA
	D	NORFOLK	VA
	XD	STAUNTON	VA
	JNU	RAVENSWOOD	WV
6.115/6.715	ABZ	RINGGOLD	GA
	GGN	MILLERS CREE	NC
	KDC	SPRING LAKE	NC
	NEP	COLUMBIA	SC
	I	BLACKSBURG	VA
	TXE	STERLING	VA
	HEZ	GASSAWAY	WV
	GL	SHERRARD	WV
6.12 /6.72	QHN	PHENIX CITY	AL
	KAD	ST ALBANS/CO	WV
6.13 /6.73	SWF	LOUISA	EKY
	MM	ALBANY	GA
	TVE	BRUNSWICK	GA
	FIZ	COLUMBUS	GA
	FT	MARIETTA	GA
	NC	SWEAT MT	GA
	BWC	RALEIGH	NC
	EXU	SALISBURY	NC
	VNK	WILMINGTON	NC
	FKJ	N. AUGUSTA	SC
	LDP	SIMPSONVILLE	SC
	IOB	KNXVL/ENG MT	TN
	VZ	LEBANON	TN
	DAZ	MEMPHIS	TN
	DHO	HAMPTON	VA
	AVZ	ALDERSON	WV
6.14 /6.74	NTI	MUNFORD	AL
6.145/6.745	BKF	ATHENS	GA
	N	DILLON/PEE D	SC
	HF	DYERSBURG	TN
	QOJ	ROANOKE/POOR	VA
6.16 /6.76	BOC	ATLANTA	GA
	APS	VALDOSTA	GA
	BVW	ASHVL/MT PIS	NC
	MSS	GREENSBORO	NC
	S	SWANSBORO	NC
	THL	WILSON	NC
	ILT	CHARLESTON	SC
	OCB	FT JACKSON	SC
	PCD	NASHVILLE	TN
	TFZ	CHARLOTTESVI	VA
	STE	LYNCHBURG	VA
	VA	HUNTINGTON	WV
	CUL	MORGANTOWN	WV
	JDH	WHEELING	WV
6.175/6.775	KE	MARIETTA	GA
	OCB	WRENS	GA
	BFB	CHARLOTTE/RT	NC
	DHW	ELIZABETHTOW	NC
	JVO	PULASKI/MUS	TN
	EMS	WYTHEVILLE	VA
6.18 /6.78	YYL	HALEYVILLE	AL
6.19 /6.79	GEL	PIKEVILLE	EKY
	DMK	FOLKSTON	GA
	KOW	MOULTRIE	GA
	SEX	NEWNAN	GA
	VYX	SWAINSBORO	GA
	LZD	CLINTON	NC
	LDK	SAURATOWN MT	NC
	FVV	ANDERSON/SAS	SC
	IVE	CHARLESTON	SC
	DSK	CHATTANOOGA	TN
	XX	JOHNSON CITY	TN
	SQE	NASHVILLE	TN
	SD	CHESAPEAKE	VA
	LBL	FAIRFAX	VA
	CFT	OAK HILL	WV
6.205/6.805	LT	MILLEDGEVILL	GA
	BWG	FAYETTEVILLE	NC
	NOQ	GASTONIA	NC
	HTI	COVINGTON	VA
7.405/6.805	HCY	MAGGIE VALLE	NC
6.22 /6.82	NQH	FLORENCE	AL
	MM	ALBANY	GA
	DOC	ATLANTA	GA
	HAO	LYONS	GA
	PZA	ROARING GAP	NC
	GMP	WILMINGTON	NC
	NYK	GRNVLE/PARIS	SC
	OAH	LAKE CITY	TN
	BS	MEMPHIS	TN
	UBW	WINCHESTER	TN
	RKC	WINCHESTER	VA
	IFS	CHARLESTON	WV
	FMD	CLARKSBURG	WV
6.235/6.835	IHR	AUGUSTA	GA
	P	HAMPTON	GA
	QCO	ASHEVILLE	NC
	JXG	NAGS HEAD/BO	NC
	IAT	WADESBORO	NC
	AXH	BLACKSTONE	VA
	CYZ	HAZEL MT	VA
7.435/6.835	LNW	HIGH POINT	NC
6.24 /6.84	MZ	DOTHAN	AL
	YOX	WARRIOR	AL
6.25 /6.85	IXA	PIKEVILLE	EKY
	DVJ	DALLAS	GA
	R	LAGRANGE	GA
	UUB	ST. MARYS	GA
	HON	WARNER ROBIN	GA
	CYP	GOLDSBORO	NC
	MDW	HICKORY/BRT.	NC
	YFT	REIDSVILLE	NC
	ULH	FLORENCE	SC
	KJH	GTLBG/COVE M	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	MG	PORTSMOUTH	VA
	ZBP	STAUNTON	VA
	BO	BKLY/FLAT TO	WV
	WYH	BUCKHANNON	WV
6.265/6.865	DKY	MADISON	GA
	YF	BARKSDALE/BI	SC
	G	FAYETTEVILLE	TN
7.465/6.865	ZRS	WAXHAW	NC
6.28 /6.88	KUC	PRESTONSBURG	EKY
	AGO	COLUMBUS	GA
	BTI	MARIETTA	GA
	NKL	QUITMAN	GA
	HBB	SAVANNAH	GA
	ITL	RALEIGH	NC
	NYR	SHELBY	NC
	AVU	COLUMBIA	SC
	CYZ	BRISTOL	TN
	ETE	MEMPHIS	TN
	PCD	NASHVILLE	TN
	SKH	OAK RIDGE	TN
	CYZ	BRISTOL	VA
	ZBE	RICHMOND	VA
	PDL	SALEM	VA
	CQV	CHARLESTON	WV
6.295/6.895	YFF	MADISON	NC
	OOA	WAXHAW	NC
6.30 /6.90	ACN	JASPER	AL
	SP	FAIRMONT	WV
9.40 /4.40	ZW	FAYETTEVILLE	NC
	EAJ	OAK RIDGE	TN
	FQJ	LOGAN/WARD R	WV
9.425/4.425	ED	ROCKY FACE	GA
	ISI	ALTAVISTA	VA

PLEASE NOTE!

The letters column between the frequency and city indicate suffixes of the repeater callsign.

REPEATERS BY FREQUENCY CONTINUED

6.31 /6.91	GFY	MOREHEAD	EKY
	FOW	CLEVELAND/LO	GA
	HYB	GRIFFIN	GA
	ZGQ	AHOSKIE	NC
	MOE	ASHVL/SPIVEY	NC
	YZF	FAYETTEVILLE	NC
	IZM	LEXINGTON	NC
	BWZ	WHITE HALL	SC
	DQU	SAVANNAH	TN
	YXA	SHORT MTN	TN
	NWP	FARMVILLE	VA
	OVC	JONESVILLE	VA
	TUE	MT. LK/BALD	VA
	FMD	TYSONS CORNE	VA
	ULB	MCMECHEN	WV
	SNW	RIPLEY	WV
6.32 /6.92	PRY	WATUMNPKA/MO	AL
6.325/6.925	CWZ	ROCK HILL	SC
	TFZ	CHARLOTTESVI	VA
	GJG	DANVILLE(DCC	VA
	MZ	ONEIDIA PEAK	VA
6.34 /6.94	Y	ASHLAND	EKY
	N	AUGUSTA	GA
	VO	ROME	GA
	RVB	WRIGHTSVILLE	GA
	DLH	BURGAW	NC
	BFB	CHARLOTTE	NC
	BFT	DURHAM	NC
	ACY	MANTEO	NC
	ZAS	MT AIRY-RTTY	NC
	IVE	CHARLESTON	SC
	IQQ	GREENVILLE	SC
	GBI	KNOXVILLE	TN
	BN	MEMPHIS	TN
	PCD	NASHVILLE	TN
	UMI	HAMPTON	VA
	ZA	RICHMOND	VA
	QET	ROANOKE	VA
	VKB	SUMMERSVILLE	WV
	JN	WEIRTON	WV
6.54 /6.94	CSW	NEW MARTINSV	WV
6.355/6.955	KIN	PERRY	GA
	EFL	YNG HRS/RCKY	GA
	ULA	ROCKINGHAM	NC
	OGY	EAST RIVER M	WV
6.36 /6.96	AKW	MOULTON	AL
6.37 /6.97	TYH	BREWTON	AL
	OD	ATLANTA	GA
	HBB	SAVANNAH	GA
	ZAS	MT AIRY	NC
	JQ	SMITHFIELD	NC
	SZ	ANDERSON	SC
	ISM	FLORENCE	SC
	TRC	KNGSPT/BAYS	TN
	CPJ	MCMINNVILLE	TN
	BEZ	MEDINA	TN
	SKH	OAK RIDGE	TN
	FPM	MANASSAS	VA
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEA	VA
	DRV	LOGAN/WARD R	WV
	CRW	PARKERSBURG	WV
6.38 /6.98	DMA	DOUBLE OAK M	AL
6.385/6.985	I	AUGUSTA	GA
	HHH	ELLIJAY	GA
	TOV	PRESTON	GA
	OGB	ALBEMARLE	NC
	ROZ	OLD FORT	NC
	ESG	MT PLEASANT	SC
	CA	ROANOKE/POOR	VA
6.40 /7.00	NNO	ATLANTA	GA
	LDK	HIGH POINT	NC
	FVO	JACKSONVILLE	NC
	YLT	MARION	SC
	YXZ	PICKENS	SC
	FZJ	MEMPHIS	TN
	HMT	SUFFOLK	VA
	GDY	ST ALBANS	WV
7.60 /7.00	DXZ	LANETT	AL
	WAU	ELKHORN CITY	EKY
	LZQ	HINESVILLE	GA
	LDK	HIGH POINT	NC
	KMG	BLOUNTVILLE	TN
	ZOK	CHATT/SIGNAL	TN
	TEQ	CLARKSVILLE	TN
	ZR	TERRA ALTA	WV
7.615/7.015	FOW	CLEVELAND/LO	GA
	MST	WARNER ROBIN	GA
	KPF	LK NORMN/CLT	NC
	UMU	SUMTER	SC
	K	NASHVILLE	TN
	LNT	FREDRICKSBUR	VA
7.62 /7.02	ISB	PELL CITY	AL
6.43 /7.03	YTZ	ROCK HILL	SC
	LGH	LEXINGTON	TN
	ODR	MILLINGTON/N	TN
	JST	RICHMOND	VA
7.63 /7.03	REI	ATLANTA/AIRP	GA
	IZ	GREENSBORO	NC
	DTS	ROANOKE RAPI	NC
	FOF	BARNWELL	SC
	JYR	MYRTLE BEACH	SC
	NIQ	FAYETTEVILLE	TN
	ZJM	MEMPHIS	TN
	PRQ	MORRISTOWN	TN
	BLD	WAYNESBORO/F	VA
	IT	MULLENS/HRND	WV
	ECC	ST MARYS/BEN	WV
6.445/7.045	TRW	HOPE MILLS	NC
	CNS	ROB/JOANNA B	NC
	FLR	SPRING LAKE	NC
	YVM	ARLINGTON	VA
7.645/7.045	TYM	METTER	GA
	JRL	STATSVL/ASBR	NC
	WA	RADFORD	VA
	WRN	STAUNTON/EL.	VA
	SBC	VIRGINIA BEA	VA
6.06 /7.06	JYR	MADISON	WV
6.46 /7.06	KAU	COHUTTA-RTTY	GA
	CQ	CHARLOTTE	NC
	MQQ	MEMPHIS	TN
	LBM	SOUTH BOSTON	VA
	PNC	PRINCETON	WV
7.66 /7.06	I	TUSCALOOSA	AL
	ICT	MACON	GA
	CLA	ROSWELL	GA
	UCJ	THOMASVILLE	GA
	LED	MACO	NC
	VFR	SUMTER	SC
	LYF	GRNVLE/GRYST	TN
	QEB	SHELBYVILLE	TN
	ECM	CHESTERFLD C	VA
	KNM	POINT PLEASA	WV
6.475/7.075	VGZ	BURLINGTON	NC
7.675/7.075	JXR	SNELLVILLE	GA
	HBQ	BURLINGTON	NC
	GBI	KNOXVILLE	TN
	PNT	WAYNSBR/AFTO	VA
	RD	JANELEW	WV
7.68 /7.08	GNA	MT CHEAHA	AL
7.69 /7.09	NDB	PAINTSVILLE	EKY
	CVE	ST SIMONS IS	GA
	GDF	GREENVL/ESTN	NC
	AQY	ORANGEBURG	SC
	OXE	SPARTANBURG	SC
	BSA	SPARTA/BON A	TN
	VL	GALAX/BRIRP	VA
7.70 /7.10	UV	HUNTSVILLE	AL
7.705/7.105	YSB	ATLANTA	GA
	DEC	MARION/BEAR	NC
	JCK	MONROE/UCARS	NC
	JBJ	BEDFORD	VA
	APG	SPENCER	WV
6.09 /7.11	ZLR	LOGAN	WV
7.72 /7.12	ASZ	WINCHESTER	EKY
	MM	ALBANY	GA
	S	AUGUSTA	GA
	CMA	CEDARTOWN	GA
	REW	GAST/SPCR MT	NC
	ACP	MAYODAN	NC
	EWL	ROCKY MOUNT	NC
	YGE	MYRTLE BEACH	SC
	DAZ	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	FAF	CULPEPPER	VA
	VNQ	BRIDGEPORT	WV
	VKI	DUNBAR	WV
7.785/7.185	BZJ	DALTON	GA
	JFE	VALDOSTA	GA
	CJS	BREVARD/RICH	NC
	ABW	CHERAW	SC
	EDS	ALAMO	TN
	AZJ	NARROWS/DISM	VA
	HB	RICHMOND	VA
7.74 /7.14	JUM	HUEYTOWN	AL
7.745/7.145	KNE	MT. STERLING	EKY
7.75 /7.15	MWA	DOG FORK MT	EKY
	TFW	ALBANY	GA
	BYK	CUMMING/SAWN	GA
	VLY	MORGANTON	NC
	ITL	RALEIGH	NC
	BJM	MONCKS CORNE	SC
	SDT	SIMPSONVILLE	SC
	KUB	MEMPHIS	TN
	PCD	NASHVILLE	TN
	EAJ	OAK RIDGE	TN
	OEC	ST ALBANS/CO	WV
7.765/7.165	RT	HIGH POINT	NC
	YF	GREENWOOD	SC
	LSP	BRISTOL/HLST	TN
	CEX	PURYEAR	TN
	CTF	NEWPORT NEWS	VA
	FJT	WARRENTON	VA
7.78 /7.18	BMA	AUGUSTA	GA
	NHW	BALDWIN	GA
	BI	SYCAMORE	GA
	EJJ	SANFORD	NC
	CTJ	WILMINGTON	NC
	SC	FT MILL/CARO	SC
	NAT	GOOSE CREEK	SC
	DES	CLEVELAND	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	KAF	PETERSBURG	VA
	Z	PKS KB/PULAS	VA
	NMT	LEON	WV
7.795/7.195	SMX	ATLANTA	GA
	WB	MURPHY	NC
	RTS	LYNCHBURG	VA
7.80 /7.20	WIE	HEADLAND	AL
7.81 /7.21	SG	CONYERS	GA
	LN	DALTON	GA
	D	STATESBORO	GA
	BUZ	GREENSBORO	NC
	MSD	WHITEVILLE	NC
	AVU	LITTLE MT.	SC
	WS	COOKEVILLE	TN
	WKZ	JACKSON	TN
	IWG	MCLEAN	VA
	AXO	WISE/HIGH KN	VA
7.825/7.225	LVY	SUMMERVILLE	GA
	WTX	HILLSBOROUGH	NC
	DTW	LAKE MARION	SC
	OAH	MORRISTOWN	TN
	SDC	YORKTOWN	VA
7.84 /7.24	ROJ	ENTERPRISE	AL
	DII	ASHLAND	EKY
	NFG	IRWINTON	GA
	NIW	CARTHAGE	NC
	ACP	EDEN/MAYODAN	NC
	BKU	FOREST CITY	NC
	GHZ	FRANKLIN	NC
	BAL	HILTON HEAD	SC
	BGF	LANCASTER	SC
	NIT	GALLATIN	TN
	APK	MEMPHIS	TN
	ARO	PETERSBURG	VA
	FQR	WOODBRIDGE	VA
7.855/7.255	KDT	ATLANTA	GA
	AV	ASHEBORO	NC
	KNI	HENDSVL/PINC	NC
	TVS	ACCOMAC	VA
	DCX	GRUNDY/BIG A	VA
	VAZ	MARTINSBURG	WV
7.885/7.255	BZU	DONELSON	TN
7.86 /7.26	PJE	FORT PAYNE	AL
7.87 /7.27	GEL	PIKEVILLE	EKY
	VBH	AMERICUS	GA
	H	BENSON	NC
	SM	WAYNESVILLE	NC
	LET	CHARLESTON	SC
	JRJ	SENECA/LONG	SC
	YQC	GALLATIN	TN
	FH	JOHNSON CITY	TN
	GX	GUM SPRING	VA
	SLI	SCOTT DEPOT	WV
7.885/7.285	BI	ASHBURN	GA
	VBX	ATLANTA/GPCO	GA
	ADM	AIKEN	SC
	I	ROCKY SPUR	SC
	MJM	PIKEVILLE	TN
	L	MARTINSVILLE	VA
7.90 /7.30	AVB	HUNTSVILLE	AL
	DAT	TUSCALOOSA	AL
	HNM	ROME	GA
	HNM	SVR CRK/MT A	GA
	HON	WARNER ROBIN	GA
	YJG	GLENDALE SPG	NC
	ATW	JACKSONVILLE	NC
	NHV	LUMBERTON	NC
	OMV	TUCKASEGEE	NC
	LWS	CHARLESTON	SC
	LWS	MT PLEASANT	SC
	BBB	KNOXVILLE	TN
	ADT	MEMPHIS	TN
	ZSA	NASHVILLE	TN
	SPS	FRANKLIN	VA
	ZR	LEXINGTON	VA
	TSC	WINCH/BLUEMO	VA
	NSL	HARRISVILLE	WV
	BKX	HUNTINGTON	WV
7.915/7.315	RBW	UNION CROSS	NC
	HFH	ALEXANDRIA	VA
	OHX	CLARKSBURG	WV
7.92 /7.32	HWQ	GRUNDY	VA
7.93 /7.33	KWH	ASHLAND	EKY
	BXO	LAGRANGE	GA
	DIP	TOCCOA	GA
	LPL	FAYVLLE/FT B	NC
	K	LENOIR/HIBRI	NC
	KIO	COLUMBIA	SC
	VXW	COVINGTON	TN
	CV	CROSSVILLE	TN
	AJS	NASHVILLE	TN
	PQD	LEXNGTN/COLE	VA
	ZIP	WARSAW	VA
7.94 /7.34	MHO	BIRMINGHAM	AL
	ZPI	DOTHAN	AL
	UPC	ATLANTA/SWEA	GA
7.945/7.345	IZD	LYNCH/BLACK	EKY
	NYR	SHELBY	NC
	TEP	WASHINGTON	NC
	WF	HENDERSONVIL	TN
	GTA	GATE CITY	VA
	VR	WYTHE/PULASK	VA
	RUA	FRANKLIN	WV
7.95 /7.35	YZR	DANVILLE	VA
7.96 /7.36	EO	DOUGLASVILLE	GA
	HZX	DUBLIN	GA
	KDB	BOONE/RICH M	NC
	MDI	LUMBERTON	NC
	ZGW	SUMMERVILLE	SC
	OAK	KNXVL/CROSS	TN
	MMI	MEMPHIS	TN
	NTM	NASHVILLE S.	TN
	KLX	PARIS	TN
	CBB	CHESTERFIELD	VA
7.975/7.375	YN	BURNSVILLE	NC
	ROK	GREENVILLE	NC
	DMI	GEORGETOWN	SC
	BTJ	HILLSVILLE	VA
	ILD	LYNCHBURG	VA
	OHX	NEWPORT NEWS	VA
	VNQ	GRAFTON	WV
	WMX	ST ALBANS	WV
7.98 /7.38	CZZ	GUNTERSVILLE	AL
7.99 /7.39	PDJ	JENKINS	EKY
	IMK	THOMASTON	GA
	PLY	CHARLOTTE	NC
	QBG	EDEN/STONEVI	NC
	MKL	SMITHFIELD	NC
	FEC	LEXINGTON	SC
	ZLA	DAYTON/RHEA	TN
	DLQ	GALLATIN	TN
	DLQ	GRAY	TN
	AJO	MADISON	VA
	ARO	PETERSBURG	VA
	JZN	PARKERSBURG	WV
6.19 /7.51	FZJ	MEMPHIS	TN
7.015/7.615	QPL	MARIETTA	GA
	YGM	UNION CITY	TN
7.285/7.885	BXA	BIRMINGHAM	AL
7.315/7.915	AQA	FORSYTH	GA
7.375/7.975	TQU	ATHENS	GA
	LEO	GREENVILLE	SC

220 MHZ

3.70 /3.70	GQX	SAWNEE MT/CU	GA
2.12 /3.72	PGA	LOUISA	EKY
	KHP	STERLING PK	VA
2.30 /3.90	RAB	HERMITAGE	TN
2.32 /3.92	AZA	HIGH POINT	NC
2.34 /3.94	QK	ASHLAND	EKY
	UPC	ATLANTA/SWEA	GA
	BVW	ASHVL/MT PIS	NC
	WTX	HILLSBOROUGH	NC
	GP	CLARKSVILLE	TN
	ZJM	MEMPHS/FRAYS	TN
2.36 /3.96	C	ROCKY MOUNT	NC
2.38 /3.98	HUV	LINWOOD	NC
	ILY	GREER	SC
	ZSA	GALLATIN	TN
2.40 /4.00	ZIA	LOCUST	NC
	ARO	PETERSBURG	VA
2.42 /4.02	EHF	FAYETTEVILLE	NC
	MDW	HICKORY	NC
	TB	NASHVILLE	TN
2.46 /4.06	UPC	BUCHANAN/HAR	GA
	N	EASLEY/SASFR	SC
2.48 /4.08	UEX	NASHVILLE	TN
2.50 /4.10	YHD	FAIRFAX	VA
	DBB	ROANOKE	VA
2.52 /4.12	UPC	ATLANTA/SWEA	GA
	FEC	LITTLE MT	SC
2.54 /4.14	AHN	BESSEMER	AL
	WOR	LUMBERTON	NC
	QHF	PICKENS/CSRS	SC
	SGS	FRANKLIN	TN
	BKX	HUNTINGTON	WV
2.56 /4.16	K	LENOIR/HIBRI	NC
2.58 /4.18	TAG	HICKORY VALL	TN
2.60 /4.20	JIF	MOORESBORO	NC
2.62 /4.22	AWB	NASHVILLE	TN
2.64 /4.24	KNI	HENDSVL/BERW	NC
2.66 /4.26	NP	MT. JULIET	TN
	QKH	TAZEWELL	VA
2.70 /4.30	PVI	STATESVILLE	NC
2.74 /4.34	UPC	CANTON	GA
	DFH	FRIES/PT LKO	VA
2.76 /4.36	YTO	MARSHALL	NC
2.80 /4.40	ZC	CHARLT/MINT	NC
2.86 /4.46	YON	KNOXVILLE	TN
2.88 /4.48	JFM	N. WILKESBOR	NC
2.90 /4.50	KSM	CANTON	GA
	BBB	KNOXVILLE	TN
2.94 /4.54	BVW	MT MITCHELL	NC
2.98 /4.58	F	PIKEVILLE	EKY
3.00 /4.60	N	ASHEVILLE	NC
	ENR	WILLIAMSON	WV
3.02 /4.62	MWI	PIKEVILLE	EKY
3.04 /4.64	PEN	RALEIGH	NC
	YHH	WINSTON-SALE	NC
3.06 /4.66	UPC	ATLANTA/SWEA	GA
3.08 /4.68	KPF	LK NORMN/CLT	NC
3.10 /4.70	RXG	SAURATOWN MT	NC
3.12 /4.72	MSK	MT. TOXAWAY	NC
	KHP	TYSONS CORNE	VA
3.14 /4.74	BSW	MARIETTA	GA
	FG	KINGSTON/LIC	WV
3.16 /4.76	EXU	SALISBURY	NC
	OAK	DAN/WHT OAK	VA
3.18 /4.78	VCM	CHATTANOOGA	TN
3.20 /4.80	PML	MORGANTON	NC
3.22 /4.82	C	ATLANTA	GA
	IKY	GREENSBORO	NC
	CCF	ALEXANDRIA	VA
3.28 /4.88	UPC	BUCHANAN/HAR	GA
	BZJ	DALTON	GA
	RXG	SAURATOWN MT	NC
3.30 /4.90	QPL	MARIETTA	GA
	EOY	COLUMBIA	SC
	ZOK	CHATT/SIGNAL	TN
3.32 /4.92	MZ	CHAPEL HILL	NC
3.34 /4.94	EM	PLEASANT GRO	AL
	I	AUGUSTA	GA
	UPC	BUCHANAN/HAR	GA
	KBD	JACKSONVILLE	GA
	EV	ROSSVILLE	GA
	NKM	GREENEVILLE	TN
	DBB	ROANOKE/POOR	VA
3.36 /4.96	UDS	CHERRYVILLE	NC
	JVX	GOLDSBORO	NC
3.38 /4.98	CHP	FALLS CHURCH	VA

440 MHZ

9.45 /5.67	KEZ	LAWRENCEVILL	GA
4.25 /1.25	BVW	MT MITCHELL	NC
9.25 /1.25	KIP	ATLANTA	GA
	GGK	SAURATOWN MT	NC
	GUP	LEXINGTON	SC
	R	CHARLESTON	WV
9.25 /3.25	UMU	SUMTER	SC
9.25 /6.25	GGK	LEWISVILLE	NC
	WIN	NORFOLK	VA
9.25 /6.27	AAG	ALEXANDRIA	VA
9.25 /7.25	MM	ALBANY	GA
	NYR	SHELBY	NC
	ZOK	CHATT/SIGNAL	TN
7.00 /2.00	WAY	PICKENS/CSRS	SC
	CSG	WINCHESTER	VA
7.05 /2.05	PML	MORGANTON	NC
	XX	JASPER	TN
	BEZ	MEDINA	TN
7.10 /2.10	ACP	EDEN	NC
	ABJ	MILAN	TN
7.15 /2.15	BEA	RALEIGH	NC
7.20 /2.20	BJY	JACKSON	TN
7.25 /2.25	HTI	COVINGTON	VA
7.325/2.325	JSR	CHATTANOOGA	TN
7.50 /2.50	CM	SYLACAUGA	AL
	NTZ	KNOXVILLE	TN
	CA	ROANOKE/POOR	VA
7.55 /2.55	JEH	CONYERS	GA
7.70 /2.70	HON	ROANOKE	VA
7.80 /2.80	EPG	JACKSON	TN
	QWW	MEMPHIS	TN
7.825/2.825	EPG	JACKSON	TN
7.90 /2.90	I	TUSCALOOSA	AL
	AZA	HIGH POINT	NC
8.00 /3.00	EO	CHATSWORTH	GA
	ZJM	MEMPHIS	TN
8.05 /3.05	JVX	GOLDSBORO	NC
8.10 /3.10	IZD	LYNCH/BLACK	EKY
	GGC	SAURATOWN MT	NC
	HKZ	GREENVILLE	SC
8.145/3.145	OCB	AUGUSTA	GA
8.20 /3.20	CLA	MARIETTA	GA
	TAG	HICKORY VALL	TN
8.30 /3.30	A	CLANTON	AL
	KJH	GATLBG/COVE	TN
8.40 /3.40	DOR	MEMPHIS	TN
8.50 /3.50	LVH	ATLANTA	GA
	PQZ	GREENSBORO	NC
	WKS	PARIS/GROVE	TN
	GUS	TYSONS CORNE	VA
8.55 /3.55	XE	WILKESBORO	NC
8.60 /3.60	DWU	MT MITCHELL	NC
8.65 /3.65	UMI	HAMPTON	VA
8.70 /3.70	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
8.75 /3.75	KCH	BIRMINGHAM	AL
	EDS	ALAMO	TN
	WIC	FINCASTLE	VA
8.30 /3.80	EAQ	MANASSAS	VA
8.80 /3.80	DJR	HUEYTOWN	AL
	K	NORTHWEST/SE	VA
8.85 /3.85	IDB	FRANKLIN	TN
8.875/3.875	MZ	CHAPEL HILL	NC
	LZQ	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	EVG	CHESAPEAKE	VA
8.95 /3.95	NTG	WILLIAMSBURG	VA
9.00 /4.00	URC	CHEAHA MTN	AL
	QDX	LAWRENCEVILL	GA
	JEQ	HICKORY	NC
	SDC	VIRGINIA BEA	VA
	CYH	HERNDON/HRND	WV
9.05 /4.05	ZPI	DOTHAN	AL
	PQD	MARIETTA	GA
	OG	NASHVILLE	TN
	BLD	WAYNSBR/AFTO	VA
8.10 /4.10	G	FAYETTEVILLE	TN
9.10 /4.10	KBD	JACKSONVILLE	GA
	WTX	DURHAM	NC
	NFO	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
9.15 /4.15	LDR	ATLANTA/BELL	GA
	NTM	NASHVILLE	TN
	PQD	LEXNGTN/COLE	VA
	VA	SPRINGFIELD	VA
9.20 /4.20	DJR	BIRMINGHAM	AL
	QHN	COLUMBUS	GA
	LBM	DECATUR	GA
	YNF	AHOSKIE	NC
	NEX	MORRISTOWN	TN
9.25 /4.25	BOC	ATLANTA	GA
	EO	ROCKY FACE	GA
	KNI	HENDSVL/BERW	NC
	FUD	SMYRNA	TN
	TFZ	CHARLOTTESVI	VA
9.30 /4.30	JWO	NEWTON	NC
	DDS	FISHERVILLE	TN
	HXD	KNOXVILLE	TN
	BLD	WAYNESBORO	VA
8.35 /4.35	GGN	N. WILKESBOR	NC
9.35 /4.35		VALDOSTA	GA
	BKY	GALLATIN	TN
	DBB	BEDFD/APL OR	VA

CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KK4Y	146.34	146.94	*	
ASHLAND	KA4DII	147.84	147.24		PA
ASHLAND	WA8KWH	147.93	147.33		A
DOG FORK MT	N4MWA	147.75	147.15		
ELKHORN CITY	WB4WAU	147.60	147.00	*	PA
GRAYSON	KF4JO	146.10	146.70	N	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	*	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	N	A
LOUISA	WA4SWF	146.13	146.73	*	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	*	
MT. STERLING	WD4KNE	147.745	147.145	N	
PAINTSVILLE	KB4NDB	147.69	147.09		
PIKEVILLE	N4IWZ	144.55	145.15	*	
PIKEVILLE	WB4GEL	146.19	146.79	*	PA
PIKEVILLE	N4IXA	146.25	146.85	*	EAL
PIKEVILLE	WB4GEL	147.87	147.27	*	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	*	LRB
PRESTONSBURG	WB4KUC	146.28	146.88		
WINCHESTER	WB4ASZ	147.72	147.12		EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
LOUISA	K4PGA	222.12	223.72		EA
PIKEVILLE	WB4F	222.98	224.58	*	
PIKEVILLE	N4MWI	223.02	224.62		A

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

6 METERS

FLAT GAP	N4MPM	52.45	53.45	*	C

REPEATERS BY FREQUENCY

9.45 /4.45	KEZ	LAWRENCEVILL	GA
	KWP	GALLATIN	TN
	CRK	FALLS CHURCH	VA
9.50 /4.50	MM	ALBANY	GA
	UWL	ATLANTA	GA
	HTG	LEXINGTON	NC
	IZF	MEMPHIS	TN
	HEX	LYNCHBURG	VA
	QYO	HUNTINGTON	WV
9.55 /4.55	MHO	BIRMINGHAM	AL
	NEF	TYRONE	GA
	PCD	NASHVILLE	TN
9.60 /4.60	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	HFH	ALEXANDRIA	VA
	OZT	ST ALBANS	WV
9.625/4.625	WQ	ATLANTA	GA
9.65 /4.65	EXU	SALISBURY	NC
	KNU	WILLIAMSTON	NC
	NKM	GREENEVILLE	TN
	ARO	RICHMOND	VA
9.675/4.675	AY	NASHVILLE	TN
9.70 /4.70	CYA	HUEYTOWN	AL
	JEH	ROCKY MOUNT	NC
	BR	WILMINGTON	NC
	DRU	MT PLEASANT	SC
	GBI	KNOXVILLE	TN
	LG	MORGANTOWN	WV
9.735/4.735	TIW	DALTON	GA
9.75 /4.75	RFA	ROCK HILL	SC
	BFS	ELIZ/HOLSTON	TN
	JYF	TYSONS CORNE	VA
9.775/4.775	QES	NASHVILLE	TN
9.80 /4.80	J	GREENVILLE	NC
	UY	MT AIRY/FSH	NC
	APK	MEMPHIS	TN
	UTF	OILVILLE	VA
	FRV	LICK KNOB	WV
	CUL	MORGANTOWN	WV
9.825/4.825	VZ	WATERTON	TN
	ZBP	STAUNTON	VA
9.85 /4.85	CQ	CHARLOTTE	NC
	ARO	PETERSBURG	VA
9.875/4.875	COS	MT PISGAH	NC
	THG	NASHVILLE	TN
4.30 /4.90	FUM	BIRMINGHAM	AL
9.90 /4.90	COS	ASHVL/MT PIS	NC
	ZW	FAYETTEVILLE	NC
	J	WILSON	NC
9.925/4.925	NNO	ATLANTA	GA
	BUH	ANDERSON/SAS	SC
9.95 /4.95	WXL	RALEIGH	NC
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEA	VA
9.975/4.975	GA	HIGH LEVEL	AL
	YNZ	ATLANTA	GA
	TVE	BRUNSWICK	GA
	GIC	SAURATOWN MT	NC
	QES	NASHVILLE	TN
6.65 /6.65	DBB	ROANOKE	VA
2.65 /7.65	A	MONTGOMERY	AL
2.925/7.925	A	PRATTVILLE	AL
3.50 /8.50	LBH	CONYERS	GA
3.80 /8.80	HNK	SUMMERVILLE	SC
4.225/9.225	JCE	MANASSAS	VA
4.40 /9.40	KOG	MEMPHIS	TN
4.825/9.825	DOC	ATLANTA	GA
4.90 /9.90	OLL	MACON	GA
	FQR	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMO	VA
2.01 /ACON	DRL	FISHERVILLE	TN

10 METERS

9.60 /9.60	TFZ	CHARLOTTESVI	VA
9.52 /9.62	LVH	ATLANTA	GA
	XE	WILKESBORO	NC
	IOB	KNXVL/ENG MT	TN
	ZJM	MEMPHIS/FRAY	TN
	MXT	RICHMOND	VA
9.54 /9.64	KBD	JACKSONVILLE	GA
	MZ	CHAPEL HILL	NC
9.56 /9.66	I	TUSCALOOSA	AL
	IS	MARIETTA	GA
	ACP	EDEN	NC
	EHV	SAPPHIRE	NC
9.58 /9.68	MM	ALBANY	GA
	DN	STERLING	VA

6 METERS

2.58 /2.48	DCS	FAIRFAX	VA
2.525/2.525	YAO	HENDERSONVIL	NC
	AZA	HIGH POINT	NC
	TFZ	CHARLOTTESVI	VA
2.76 /2.525	AAL	KNOXVILLE	TN
2.64 /2.84	KHP	FAIRFAX STA	VA
2.01 /3.01	CCQ	HAYDEN	AL
	YAO	HENDERSONVIL	NC
	GRW	NEWPORT	NC
	LRD	CHATTANOOGA	TN
	KOG	MEMPHIS	TN
	ATJ	ABINGTON	VA
	PQD	LEXNGTN/COLE	VA
	LSP	NORTN/HIGH K	VA
2.03 /3.03	CVN	FT PAYNE/LKT	AL
	DTS	ROANOKE RAPI	NC
2.05 /3.05	UPC	ATLANTA/SWEA	GA
	HSN	COPE	SC
	DKL	BOLT/BOLT MT	WV
2.07 /3.07	ODA	LINEVILLE	AL
	DAP	ROCKY MOUNT	NC
	NNN	LOUISA	VA
2.13 /3.13	KI	PERRY	GA
	UCE	COOKEVILLE	TN
	CCF	ALEXANDRIA	VA
	GJG	DANVILLE(DCC	VA
2.15 /3.15	AHN	BESSEMER	AL
	GQH	COLUMBIA	SC
	IOB	KNXVL/ENG MT	TN
	DBB	BEDFORD/THAX	VA
2.17 /3.17	RET	ST MARYS/BEN	WV
2.25 /3.25	YON	KNOXVILLE	TN
	FJ	RIDGEWAY	VA
	DBB	ROANOKE	VA
2.33 /3.33	EHV	SAPPHIRE	NC
2.35 /3.35	AVP	CARY	NC
	GBI	KNOXVILLE	TN
2.41 /3.41	YXY	PICKENS	SC
2.43 /3.43	B	RICHMOND	VA
2.45 /3.45	MPM	FLAT GAP	EKY
	KWP	GALLATIN	TN
2.47 /3.47	MDW	HICKORY	NC
2.55 /3.55	JEH	CONYERS	GA
2.03 /3.63	JKA	ST ALBANS/CO	WV
2.06 /3.66	JYR	DANVILLE/MAD	WV
2.67 /3.67	WRS	STATESVILLE	NC
2.09 /3.69	SVR	HERNSHAW/BEE	WV
2.12 /3.72	CDE	RAND	WV

920 MHZ

8.00 /0.00	PAR	LEXINGTON	NC
9.00 /1.00	PAR	LEXINGTON	NC

GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ALBANY	W4MM	144.55	145.15	*	L
ALBANY	W4MM	146.10	146.70	*	
ALBANY	W4MM	146.13	146.73	*	
ALBANY	W4MM	146.22	146.82	*	
ALBANY	WB4TFW	147.75	147.15	*	
AMERICUS	N4KD	146.04	146.64	N	P
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	KF4BI	147.885	147.285	*	
ATHENS	WA4BKF	146.145	146.745	*	A
ATHENS	K4TQU	147.375	147.975	*	
ATLANTA	K4DRQ	144.69	145.29	*	
ATLANTA	WA4JDR	144.71	145.31	N	
ATLANTA	W4BOC	144.85	145.45		
ATLANTA	W4BOC	146.16	146.76		
ATLANTA	W4DOC	146.22	146.82		PA
ATLANTA	N4OD	146.37	146.97	N	
ATLANTA	WA4NNO	146.40	147.00	*	PA
ATLANTA	K4YSB	147.705	147.105	N	
ATLANTA	K4SMX	147.795	147.195	N	
ATLANTA	WD4KDT	147.855	147.255	*	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	*	
ATLANTA/BELL	W4PME	144.81	145.41	*	
ATLANTA/GA TECH	W4AQL	144.55	145.15	*	PA
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/SWEAT MT	WB4UPC	144.83	145.43	*	A
ATLANTA/SWEAT MT	WB4UPC	147.94	147.34	*	
AUGUSTA	W4TUN	144.51	145.11		A
AUGUSTA	W4LWT	146.04	146.64	*	
AUGUSTA	WB4IHR	146.235	146.835	*	C
AUGUSTA	KT4N	146.34	146.94		
AUGUSTA	NA4I	146.385	146.985	*	PA
AUGUSTA	NI4S	147.72	147.12		PA
AUGUSTA	N4BMA	147.78	147.18	*	RPA
AUGUSTA/AIKEN,SC	N4JA	144.89	145.49	*	
BALDWIN	WD4NHW	147.78	147.18		A
BRUNSWICK	K4TVE	146.13	146.73	N	
CARROLLTON	W4FWD	146.04	146.64	*	A
CEDARTOWN	W4CMA	147.72	147.12	*	PA
CLEVELAND/LONG	K4FOW	146.31	146.91	*	
CLEVELAND/LONG	K4FOW	147.615	147.015	*	
COHUTTA-RTTY	W4KAU	146.46	147.06	*	RO
COLUMBUS	WD4BDU	144.71	145.31	N	
COLUMBUS	W4FIZ	146.01	146.61	*	
COLUMBUS	W4FIZ	146.13	146.73	N	
COLUMBUS	N4AGO	146.28	146.88	*	
COLUMBUS-RTTY	K4ACH	144.77	145.37	*	R
CONYERS	KE4SG	147.81	147.21	*	PA
CORDELE	WA4RWS	144.89	145.49	*	
COVINGTON	WA4ASI	146.925	146.325	N	
CUMMING/SAWNEE	K4BYK	147.75	147.15	N	PA
DALLAS	K4DVJ	146.25	146.85	N	
DALTON	N4JJK	144.63	145.23	N	
DALTON	N4BZJ	145.65	145.25	*	
DALTON	N4BZJ	147.735	147.135	*	
DALTON	KE4LN	147.81	147.21	*	
DECATUR	W4VTA	144.51	145.11	*	EA
DECATUR	WB4CPL	144.75	145.35	*	
DOUGLASVILLE	KB4EO	147.96	147.36	*	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY	W4HHH	146.385	146.985	*	
FAYETTEVILLE	K4UWN	146.085	146.685	*	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	WR4AQA	147.315	147.915	N	
GAINESVILLE	W4NSO	146.07	146.67		A
GRIFFIN	K4HYB	144.79	145.39	*	PA
GRIFFIN	K4HYB	146.31	146.91	*	
HAMILTON	N4GDG	146.835	146.235	N	
HAMILTON/PINE MT	WB4ULJ	144.59	145.19		
HAMPTON	AC4P	146.235	146.835	N	
HARTWELL	KY4T	146.895	146.295	N	EA
HINESVILLE	WA7LZQ	147.60	147.00	N	P
IRWINTON	WB4NFG	147.84	147.24	N	
JACKSONVILLE(FL)	N4KBD	144.85	145.45		PA
JASPER	KB4IZF	144.77	145.37	*	
JASPER	KB4IZF	146.10	146.70	*	A
JESUP	WA4EQL	146.07	146.67	N	
JONESBORO	WA4DIW	144.57	145.17	*	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAGRANGE	KO4R	146.25	146.85		EA
LAGRANGE	WB4BXO	147.93	147.33		EA
LYONS	K4HAO	146.22	146.82	N	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	N	
MACON	K4ICT	147.66	147.06	*	T
MADISON	WB4DKY	146.265	146.865	*	
MARIETTA	WA4QPL	144.89	145.49		PA
MARIETTA	N4NFP	146.055	146.655		EA

MORE GEORGIA REPEATERS

MARIETTA	KE4FT	146.13	146.73	N	
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4BTI	146.28	146.88	*	
MARIETTA	WA4QPL	147.015	147.615	N	
METTER	W4TYM	147.645	147.045	*	
MILLEDGEVILLE	KF4LI	144.55	145.15	*	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	PA
NEWNAN	K4SEX	146.19	146.79	*	
PERRY	KB4KIN	146.355	146.955	*	A
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROME	W4VO	146.34	146.94		EA
ROME	K4HNM	147.90	147.30	N	
ROSSVILLE	KC4EV	144.75	145.35	N	
ROSWELL	NC4E	144.69	145.29	N	
ROSWELL	N4CLA	147.66	147.06		
SAVANNAH	K4NLX	144.63	145.23	N	
SAVANNAH	K4NLX	146.10	146.70	N	PA
SAVANNAH	W4HBB	146.28	146.88	*	
SAVANNAH	W4HBB	146.37	146.97	*	A
SNELLVILLE	WD4JXR	147.675	147.075	*	PA
ST SIMONS ISL	KA4CVE	147..69	147.09	*	
ST. MARYS	KA4UUB	146.25	146.85	N	P
STATESBORO	NC4D	147.81	147.21	N	
SUMMERVILLE	KA4LVY	147.825	147.225	N	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	N	
SWAINSBORO	K4VYX	146.19	146.79	N	
SWEAT MTN	N4CLA	144.87	145.47		
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
TOCCOA	KA4DIP	147.93	147.33	*	PA
TYRONE	WA4EPK	144.61	145.21		PA
UNION CITY	WA4UPE	146.025	146.625	*	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625		A
WALESKA/PNLGMT	KE4PN	144.67	145.27	*	L
WARNER ROBINS	WB4BDP	146.01	146.61	*	
WARNER ROBINS	W4HON	146.25	146.85	*	A
WARNER ROBINS	W4MST	147.615	147.015	*	
WARNER ROBINS	W4HON	147.90	147.30	*	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	
YNG HRS/RCKY TP	N4EFL	146.355	146.955		

220 MHZ

ATLANTA	KK4C	223.22	224.82	*	PAL
ATLANTA/SWEAT MT	WB4UPC	222.34	223.94	*	L
ATLANTA/SWEAT MT	WB4UPC	222.52	224.12	*	A
ATLANTA/SWEAT MT	WB4UPC	223.06	224.66	*	O
AUGUSTA	NA4I	223.34	224.94	*	P
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	*	L
BUCHANAN/HARALSO	WB4UPC	223.28	224.88	*	O
BUCHANAN/HARALSO	WB4UPC	223.34	224.94	*	
CANTON	WB4UPC	222.74	224.34	*	L
CANTON	N4KSM	222.90	224.50	N	
DALTON	N4BZJ	223.28	224.88	*	P
JACKSONVILLE(FL)	N4KBD	223.34	224.94		
MARIETTA	N4BSW	223.14	224.74	N	
MARIETTA	WA4QPL	223.30	224.90	*	P
ROSSVILLE	KC4EV	223.34	224.94	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	*	
ALBANY	W4MM	449.50	444.50	*	
ATLANTA	W4KIP	439.25	421.25	N	V
ATLANTA	W4DOC	444.825	449.825		
ATLANTA	WB8LVH	448.50	443.50	N	
ATLANTA	W4BOC	449.25	444.25		
ATLANTA	WB4UWL	449.50	444.50	*	
ATLANTA	N4WQ	449.625	444.625	N	A
ATLANTA	WA4NNO	449.925	444.925	*	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	K4LDR	449.15	444.15	*	
AUGUSTA	WB4OCB	448.145	443.145	N	
BRUNSWICK	K4TVE	449.975	444.975	N	
CHATSWORTH	AA4EO	448.00	443.00		
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB8LBH	443.50	448.50	N	
CONYERS	WB4JEH	447.55	442.55	N	
DALTON	WA4TIW	449.735	444.735	*	
DECATUR	WB4LBM	449.20	444.20	N	
GRIFFIN	WB4GWA	448.90	443.90	*	PA
JACKSONVILLE(FL)	N4KBD	449.10	444.10		
LAWRENCEVILLE	WB4QDX	449.00	444.00		
LAWRENCEVILLE	WD4KEZ	449.45	145.67	*	RB
LAWRENCEVILLE	WD4KEZ	449.45	444.45	*	L
MACON	WB4OLL	444.90	449.90	N	
MARIETTA	N4CLA	448.20	443.20	N	
MARIETTA	K4PQD	449.05	444.05	N	
ROCKY FACE	AA4EO	449.25	444.25	N	
ROCKY FACE	AA4ED	449.425	444.425		
TYRONE	K4NEF	449.55	444.55		
VALDOSTA	???	449.35	444.35	N	P

10 METERS

ALBANY	W4MM	29.58	29.68	*	L
ATLANTA	WB8LVH	29.52	29.62		L
JACKSONVILLE(FL)	N4KBD	29.54	29.64		
MARIETTA	KJ4IS	29.56	29.66	N	C

6 METERS

ATLANTA/SWEAT MT	WB4UPC	52.05	53.05	*	
CONYERS	WB4JEH	52.55	53.55	N	C
PERRY	KB4KI	52.13	53.13	N	C

PACKET

ADEL	KF4JF-1	145.01	PKET	N	K
ALBANY	W4MM-1	145.09	PKET	N	K
ALBANY	W4MM	147.72	147.12		K
AMICACOLA MT	WB4GQX-4	145.09	PKET	*	K
AUGUSTA	WD4CNV-1	145.01	PKET	N	K
CLARKSVILLE	W4EAW-1	145.01	PKET	N	K
COHUTTA	W4KAU	145.01	PKET	*	K
COHUTTA	W4KAU	145.09	PKET	*	K
COLUMBUS	K4ABT-1	145.01	PKET	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	PKET	*	K
FAIRMONT	AA4EO-1	145.09	PKET	N	K
FORSYTH	WB4GQX-2	145.01	PKET	*	K
HAMILTON/PINE MT	WB4ULJ-1	145.01	PKET		K
HAMPTON	WA4TXT-1	145.01	PKET	N	K
LAGRANGE	WB4BXO-1	145.03	PKET		K
MACON	K4ICT-2	145.05	PKET	*	K
PERRY	K4ICT-1	145.01	PKET	*	K
ROBERTA	K4ICT-4	145.01	PKET	*	K
ROME	NC4G-1	145.09	PKET	N	K
SWEAT MT	KD4NC-1	146.13	146.73		K
WARNER ROBINS	WL7ACY-1	145.05	PKET	*	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	PKET	N	K

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	N	PA
ALBEMARLE	K4OGB	146.385	146.985	N	
ASHEBORO	KJ4AV	147.855	147.255	*	PAL
ASHEVILLE	WA4QCO	146.235	146.835	*	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91		A
BENSON	AK4H	147.87	147.27	*	PA
BOONE/RICH MTN	WA4KDB	147.96	147.36	*	
BREVARD/RICH MTN	WB4CJS	147.735	147.135		A
BURGAW	W4DLH	146.34	146.94	*	EA
BURLINGTON	K4ITL	144.71	145.31		PL
BURLINGTON	WB4ZIN	146.07	146.67	N	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	*	
CHARLOTTE	W4BFB	144.63	145.23		
CHARLOTTE	W4BFB	144.69	145.29		A
CHARLOTTE	WA4AOS	144.75	145.35	N	
CHARLOTTE	W4BFB	146.34	146.94		A
CHARLOTTE	W4CQ	146.46	147.06		A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775		R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
COLUMBIA	K4ITL	144.51	145.11	N	CL

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.		T	Tone Access Repeater
★	Honor Roll Full Member	L	Linked Repeater
D	Deliquent Membership	K	Packet Operation
N	NON Member SERA	R	Radioteletype Oper.
NB	Not on SERA Band Plan	V	Television (SS or ATV)
M	T-MARC Terr. Rptr.	P	Proposed Repeater
A	Autopatch (Open)	C	Under Construction
PA	Private Autopatch	O	Off Air Temporarily
EA	Emerg. Autopatch	RB	Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

MORE NORTH CAROLINA REPEATERS

CONCORD/KANNAP.	K4CEB	146.055	146.655		PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	*	PA
DURHAM	WA4WTX	144.85	145.45	*	AL
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WB4YZF	146.31	146.91	*	A
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	*	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	*	
FRANKLIN	W4GHZ	147.84	147.24	*	
GAST/SPCR MT	W4REW	147.72	147.12	*	A
GASTONIA	K4NOQ	146.205	146.805	*	PA
GIBSONVILLE	WD4FTB	144.69	145.29		C
GLENDALE SPGS	W4YJG	147.90	147.30	N	
GOLD HILL/GBO	N4AZM	144.65	145.25	*	A
GOLDSBORO	K4CYP	146.25	146.85	*	A
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	WA4MSS	146.16	146.76	*	
GREENSBORO	KB4IZ	147.63	147.03	*	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	WA4DAN	144.75	145.35	*	L
GREENVILLE	K4ROK	147.975	147.375	N	
GREENVL/ESTN NC	W4GDF	147.69	147.09	*	
GRIFTON	W4NBR	146.085	146.685	N	
HALIFAX	AA4SJ	146.07	146.67		A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	*	A
HENDSVL/PINCK MT	WA4KNI	147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	N	
HIGH POINT	N4XO	144.81	145.41	N	A
HIGH POINT	N4LDK	146.40	147.00	*	LA
HIGH POINT	WD4LNW	147.435	146.835	*	A
HIGH POINT	N4LDK	147.60	147.00	*	LA
HIGH POINT	KJ4RT	147.765	147.165		PA
HILLSBOROUGH	WA4WTX	147.825	147.225	*	AL
HOPE MILLS	WB4TRW	146.445	147.045	N	
JACKSONVILLE	WD4FVO	146.40	147.00	*	PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
KINSTON	N4HAJ	144.87	145.47	N	P
LARNBRG/SCOTLAND	K4QWK	146.025	146.625		
LENOIR/HIBRITN	KN4K	147.93	147.33	*	
LEWISVILLE	N4GGK	144.61	145.21	*	PA
LEXINGTON	K4IZM	146.31	146.91	*	PA
LK NORMN/CLT	WB4KPF	147.615	147.015		
LUMBERTON	W4NHV	147.90	147.30	*	EA
LUMBERTON	WB4MDI	147.96	147.36	*	
MACO	WA4LED	147.66	147.06		
MADISON	KA4YFF	146.295	146.895		
MAGGIE VALLEY	W4HCY	147.405	146.805	*	
MANTEO	W4ACY	146.34	146.94		
MARION/BEAR WLW	KA4DEC	147.705	147.105	N	
MAYODAN	WA4ACP	147.72	147.12	N	
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	KF4NJ	144.79	145.39	*	A
MONROE/UCARS	K4JCK	147.705	147.105	*	A
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	*	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	*	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	*	LPA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	*	PA
NEW BERN	WD4JMS	146.01	146.61	*	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	WD4JWO	144.57	145.17	N	
OLD FORT	KA4ROZ	146.385	146.985	N	
OXFORD	N4EKK	144.57	145.17	*	PA
RALEIGH	N4BEA	144.67	145.27	*	PAL
RALEIGH	NW4B	144.79	145.39	N	C
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64		
RALEIGH	K4BWC	146.13	146.73	*	A
RALEIGH	K4ITL	146.28	146.88	*	L
RALEIGH	K4ITL	147.75	147.15	*	PA
REIDSVILLE	K4YFT	146.25	146.85	*	
ROANOKE RAPIDS	K4ITL	144.71	145.31	N	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	*	
ROARING GAP	WB4PZA	146.22	146.82	*	
ROB/JOANNA BLD	WD4CNS	146.445	147.045		
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	*	PA
SALISBURY	W4EXU	146.13	146.73	*	PA
SANFORD	WB4EJJ	147.78	147.18	*	A
SAURATOWN MT	W4RXG	144.51	145.11	*	R
SAURATOWN MT	WA4GIC	144.87	145.47		
SAURATOWN MT	N4LDK	146.19	146.79	*	PA
SHALLOTTE	K4PPD	144.69	145.29	*	
SHELBY	W4NYR	146.28	146.88		
SHELBY	W4NYR	147.945	147.345		PA
SMITHFIELD	KD4JQ	146.37	146.97	N	
SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	*	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
SPRING LAKE	WA4FLR	146.445	147.045	*	CR
STATESVILLE	AI4O	146.085	146.685	*	
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	*	
TRENTON	K4ITL	144.61	145.21	*	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315		
WADESBORO	WA4IAT	146.235	146.835		
WASHINGTON	WA4TEP	147.945	147.345	*	
WAXHAW	WB4OOA	146.295	146.895	N	PA
WAXHAW	WA4ZRS	147.465	146.865	*	A
WAYNESVILLE	N4SM	147.87	147.27	*	PA
WHITEVILLE	K4MSD	147.81	147.21		
WILLIAMSTON	KA4KNU	144.81	145.41	*	PA
WILMINGTON	W4VNK	146.13	146.73	*	PA
WILMINGTON	K4GMP	146.22	146.82	*	L
WILMINGTON	N4CTJ	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	N	
WINSTON-SALEM	WA4GIC	146.04	146.64		

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	*	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	*	
CHAPEL HILL	K2MZ	223.32	224.92	N	C
CHARLT/MINT HL	KE4ZC	222.80	224.40		
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	*	
GOLDSBORO	WB3JVX	223.36	224.96		EA
GREENSBORO	WB4IKY	223.22	224.82	*	R
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	*	
HICKORY	WA4MDW	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92	*	LA
HILLSBOROUGH	WA4WTX	222.34	223.94	*	L
LENOIR/HIBRITN	KN4K	222.56	224.16	*	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	N	
LOCUST	WA4ZIA	222.40	224.00	*	PA
LUMBERTON	WB4WOR	222.54	224.14	*	
MARSHALL	KA4YTO	222.76	224.36		
MOORESBORO	N4JIF	222.60	224.20	N	C
MORGANTON	WB4PML	223.20	224.80	*	
MT MITCHELL	WA4BVW	222.94	224.54	*	
MT. TOXAWAY	K4MSK	223.12	224.72		
N. WILKESBORO	N4JFM	222.88	224.48	N	C
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	*	
SALISBURY	W4EXU	223.16	224.76	*	
SAURATOWN MT	W4RXG	223.10	224.70	*	R
SAURATOWN MT	W4RXG	223.28	224.88	*	
STATESVILLE	WA4PVI	222.70	224.30	N	
WINSTON-SALEM	WA4YHH	223 04	224.64	N	

440 MHZ

AHOSKIE	WB4YNF	449.20	444.20	N	C
ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHAPEL HILL	K2MZ	448.875	443.875	N	C
CHARLOTTE	W4BFB	449.60	444.60		
CHARLOTTE	W4CQ	449.85	444.85	N	
DURHAM	WA4WTX	449.10	444.10	*	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GOLDSBORO	WB3JVX	448.05	443.05		EA
GREENSBORO	WD4PQZ	448.50	443.50	*	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	*	
HICKORY	K4JEQ	449.00	444.00		
HIGH POINT	K4AZA	447.90	442.90	*	L
HIGH POINT	N4LXW	448.70	443.70	N	
LEWISVILLE	N4GGK	439.25	426.25	*	V
LEXINGTON	W4HTG	449.50	444.50	N	C
LOCUST	WA4LBT	448.70	443.70	N	
MORGANTON	WB4PML	447.05	442.05	N	C
MT AIRY/FSH PK	KF4UY	449.80	444.80	*	
MT MITCHELL	WA4BVW	434.25	421.25	*	V
MT MITCHELL	N4DWU	448.60	443.60	*	
MT PISGAH	WA4COS	449.875	444.875	N	C
N. WILKESBORO	N4GGN	448.35	444.35	N	C
NEWTON	WD4JWO	449.30	444.30	N	C
RALEIGH	N4BEA	447.15	442.15	*	L
RALEIGH	WA1WXL	449.95	444.95	N	C
ROCKY MOUNT	N4JEH	449.70	444.70	*	
SALISBURY	W4EXU	449.65	444.65	*	
SAURATOWN MT	N4GGK	439.25	421.25	N	
SAURATOWN MT	N4GGC	448.10	443.10	*	
SAURATOWN MT	WA4GIC	449.975	444.975	N	C
SHELBY	W4NYR	439.25	427.25		VPA
WILKESBORO	KC4XE	448.55	443.55	*	
WILLIAMSTON	KA4KNU	449.65	444.65	N	
WILMINGTON	KB4BR	449.70	444.70		
WILSON	NE4J	449.90	444.90	*	

MORE NORTH CAROLINA REPEATERS

920 MHZ

LEXINGTON	W4PAR	908.00	920.00	*	P
LEXINGTON	W4PAR	909.00	921.00	*	P

10 METERS

CHAPEL HILL	K2MZ	29.54	29.64	N	C
EDEN	WA4ACP	29.56	29.66	N	
SAPPHIRE	W4EHV	29.56	29.66	N	C
WILKESBORO	KC4XE	29.52	29.62	*	L

6 METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	N	
HIGH POINT	K4AZA	52.525	52.525	*	RB
NEWPORT	K4GRW	52.01	53.01	N	P
ROANOKE RAPIDS	WA4DTS	52.03	53.03	*	
ROCKY MOUNT	KA4DAP	52.07	53.07	N	P
SAPPHIRE	W4EHV	52.33	53.33	N	C
STATESVILLE	WA4WRS	52.67	53.67	N	

PACKET

CHARLOTTE	W4BFB-1	145.01	PKET		K
COLFAX	KE4TH-1	145.07	PKET	N	K
CONCORD	K4CEB-1	145.01	PKET	N	K
GOLDSBORO	K4CYP-1	145.01	PKET	N	K
RALEIGH	K4BWC-1	145.01	PKET	*	K
RALEIGH	K4ITL-1	145.01	PKET		K
SAURATOWN MT	W4RXG-1	145.01	PKET	*	K
SPIVEY MTN	KB4OKW-1	145.01	PKET	*	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	*	
ANDERSON	N4SZ	146.37	146.97	*	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	*	
BAMBERG	WA4DFP	144.73	145.33	N	
BARKSDALE/BIG KN	KB4YF	146.265	146.865	*	
BARNWELL	WA4FOF	147.63	147.03	*	
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.19	146.79	N	
CHARLESTON	W4IVE	146.34	146.94	N	P
CHARLESTON	WB4LET	147.87	147.27	*	PA
CHARLESTON	K4LWS	147.90	147.30	N	A
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
CHESTER	KB4FJX	146.025	146.625	N	P
COLUMBIA	WB4QJF	144.57	145.17	N	
COLUMBIA	KC4LB	144.83	145.43	*	PA
COLUMBIA	WB4NEP	146.115	146.715	N	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	WA4KIO	147.93	147.33		
DILLON/PEE DEE	NN4N	146.145	146.745	*	EA
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	*	PA
FT JACKSON	WB4OCB	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18		
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375		
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.375	147.975	*	NBT
GREENWOOD	KB4YF	147.765	147.165	*	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	*	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	*	PA
HILTON HEAD	N1BAL	147.84	147.24	N	
INMAN	WD8OXE	144.87	145.47		
LAKE MARION	W4DTW	147.825	147.225		A
LANCASTER	W4PAX	146.10	146.70	*	
LANCASTER	WB4BGF	147.84	147.24	N	
LEXINGTON	KA4FEC	147.99	147.39	*	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985		PA
MT PLEASANT	K4LWS	147.90	147.30		PA
MYRTLE BEACH	KI4CB	144.51	145.11	N	P
MYRTLE BEACH	K4IQM	146.01	146.61	N	PA
MYRTLE BEACH	WA4YGE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
N. AUGUSTA	K4FKJ	146.13	146.73	*	
NEWBERRY	KB4CO	146.085	146.685	*	
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WB4YXZ	146.40	147.00	*	
RKY RDG/WALLACE	KA4ABW	144.89	145.49		
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925		PA
ROCK HILL	K4YTZ	146.43	147.03		PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WA4LDP	146.13	146.73	*	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	WD8OXE	147.69	147.09	N	PA
SUMMERVILLE	K7ZGW	147.96	147.36	N	EAP
SUMTER	WS4P	146.04	146.64	*	
SUMTER	WA4UMU	147.615	147.015	*	EA
SUMTER	W4VFR	147.66	147.06	*	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	*	RB
EASLEY/SASFRS MT	AJ4N	222.46	224.06		
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	*	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	*	PA

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925		
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
GREENVILLE	WB4HKZ	448.10	443.10	N	C
LEXINGTON	N4GUP	439.25	421.25	*	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PICKENS/CSRS HD	WA6WAY	447.00	442.00	*	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	443.80	448.80	N	NB
SUMTER	WA4UMU	439.25	423.25		V

6 METERS

COLUMBIA	N4GQH	52.15	53.15	N	
COPE	N4HSN	52.05	53.05	N	
PICKENS	WB4YXY	52.41	53.41	*	

PACKET

ANDERSON	W4FX-1	145.01	PKET	*	K
CHARLESTON	N4LYF-1	145.01	PKET	N	K
COLUMBIA	N4EOY-1	145.01	PKET	*	K
CONWAY	WA4TKM-1	145.01	PKET	N	K
FLORENCE	W4ULH-1	145.01	PKET	N	K
LANCASTER	K4WJR-1	145.01	PKET	N	K
SUMTER	WS4P-1	145.01	PKET	*	K

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00		
BRISTOL	K4ILW	146.07	146.67		A
BRISTOL	WD4CYZ	146.28	146.88	N	
BRISTOL/HLSTN MT	K4LSP	147.765	147.165	N	
BROWNSVILLE	WA4ABU	146.655	146.055	N	NB
CHATT/SIGNAL MT	AD4F	146.055	146.655	*	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	N	
CHATTANOOGA	KB4TZ	144.79	145.39	N	A
CHATTANOOGA	K4CMY	146.01	146.61	N	
CHATTANOOGA	W4DSK	146.19	146.79	N	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N	
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLEVELAND	WD4DES	147.78	147.18	N	
COOKEVILLE	WA4UCE	146.07	146.67	N	A
COOKEVILLE	N4WS	147.81	147.21	N	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	*	
CROSSVILLE	W4CV	147.93	147.33	N	

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.		T	Tone Access Repeater
★	Honor Roll Full Member	L	Linked Repeater
D	Deliquent Membership	K	Packet Operation
N	NON Member SERA	R	Radioteletype Oper.
NB	Not on SERA Band Plan	V	Television (SS or ATV)
M	T-MARC Terr. Rptr.	P	Proposed Repeater
A	Autopatch (Open)	C	Under Construction
PA	Private Autopatch	O	Off Air Temporarily
EA	Emerg. Autopatch	RB	Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

MORE TENNESSEE REPEATERS

CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	*	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
ELZ/JC/HLST MT	WB4SQC	144.69	145.29	N	A
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FISHERVILLE	N4DRL	144.65	145.25	*	A
FRANKLIN	WB4HCK	144.55	145.15	N	RB
FRAYSER	W4UFT	146.10	146.70	N	
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GALLATIN	WB4DLQ	147.99	147.39	N	T
GRAY	??	147.99	147.39	N	C
GREENEVILLE	WS4X	144.79	145.39	*	
GREENEVILLE	WB4TUO	144.81	145.41	*	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	*	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
HENDERSONVILLE	WB4WZK	144.67	145.27	*	
HENDERSONVILLE	N4WF	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	*	
HUMBOLDT	NQ4Y	144.75	145.35	*	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JASPER	KD4XX	144.59	145.19	N	
JOHNSON CITY	??	146.19	146.79	N	
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97		PA
KNOXVILLE	WB4JSD	144.51	145.11	*	R
KNOXVILLE	K4KFD	144.61	145.21	N	A
KNOXVILLE	WA4TEM	144.73	145.33	*	A
KNOXVILLE	WA4GZE	144.77	145.37		EA
KNOXVILLE	WB4GBI	144.83	145.43		
KNOXVILLE	WB4GBI	144.87	145.47		
KNOXVILLE	WB4GBI	146.34	146.94		
KNOXVILLE	WB4GBI	147.675	147.075		A
KNOXVILLE	W4BBB	147.90	147.30	*	
KNXVL/CROSS MT	KA4OAK	147.96	147.36	*	
KNXVL/ENG MT	WB4IOB	146.13	146.73	*	
LAFOLLETTE	KA4OAK	144.53	145.13	*	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	*	
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	WB4DOR	144.59	145.19	*	
LEBANON	KE4VZ	146.13	146.73	N	PA
LENOIR CITY	KE4SK	144.57	145.17	N	
LEXINGTON	WB4LGH	146.43	147.03	N	
MANCHESTER	W4UOT	146.10	146.70		A
MARTIN	WA4ZQX	146.025	146.625	*	
MCMINNVILLE	WA4CPJ	146.37	146.97	*	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	*	
MEDINA	K4BEZ	146.37	146.97	N	A
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	WB4DAZ	146.13	146.73	N	
MEMPHIS	K4FZJ	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	N	L
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON/NB	W4ODR	146.43	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MUFREESBORO	KJ4RA	144.63	145.23	N	
MURFREESBORO	WB4LHO	144.57	145.17	N	PA
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
NASHVILLE	N4AJS	144.65	145.25	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	WA4PCD	146.16	146.76	N	
NASHVILLE	W4SQE	146.19	146.79		
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	*	
NASHVILLE	N4AJS	147.93	147.33	N	
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	*	L
OAK RIDGE	K4EAJ	147.75	147.15	*	R
PARIS	K4KLX	147.96	147.36		A
PIKEVILLE	K4MJM	147.885	147.285	*	
PULASKI/MUS MT	W4JVO	146.175	146.775		A
PURYEAR	WA4CEX	147.765	147.165	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27		
SHELBYVILLE	W4QEB	147.66	147.06	*	A
SHORT MTN	W4YXA	146.31	146.91	N	
SPARTA/BON AIR	W4BSA	147.69	147.09	*	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KA4OHC	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	*	
UNION CITY	WA4YGM	147.015	147.615	*	A NB
WAVERLY	NO4Q	146.085	146.685	N	
WINCHESTER	WB4UEW	146.22	146.82		

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	N	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	*	
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90		
HICKORY VALLEY	KA5TAG	222.58	224.18	N	
KNOXVILLE	WA4YON	222.86	224.46	*	
KNOXVILLE	W4BBB	222.90	224.50	*	
MEMPHS/FRAYSER	W4ZJM	222.34	223.94	N	LO
MT. JULIET	KE4NP	222.66	224.26	N	
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4AWB	222.62	224.22	N	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
CHATT/SIGNAL MT	WA4ZOK	439.25	427.25	N	V
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	N	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	444.10	N	
FISHERVILLE	N4DRL	432.01	BEACON	*	O
FISHERVILLE	N4DDS	449.30	444.30	*	O
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4BKY	449.35	444.35	N	
GALLATIN	WD4KWP	449.45	444.45	*	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	*	
HICKORY VALLEY	KA5TAG	448.20	443.20	N	C
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	*	A
JACKSON	WB4EPG	447.825	442.825	*	C
JASPER	KD4XX	447.05	442.05		C
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4NK	449.60	444.60	*	
KNOXVILLE	WB4GBI	449.70	444.70		
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4KOG	444.40	449.40	N	NB
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	W4ZJM	448.00	443.00	N	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	WD4APK	449.80	444.80	N	
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
NASHVILLE	KI4OG	449.05	444.05	N	
NASHVILLE	WB4NTM	449.15	444.15	N	C
NASHVILLE	WA4PCD	449.55	444.55	N	
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	*	L
PARIS/GROVE HL	WA4WKS	448.50	443.50		
SMYRNA	N4FUD	449.25	444.25	N	
WATERTON	KE4VZ	449.825	444.825	N	C

10 METERS

KNXVL/ENG MT	WB4IOB	29.52	29.62	*	
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N	

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.13	53.13	N	C
GALLATIN	WD4KWP	52.45	53.45	*	C
KNOXVILLE	WA4YON	52.25	53.25	*	
KNOXVILLE	WB4GBI	52.35	53.35		
KNOXVILLE	K4AAL	52.76	52.525	N	NB
KNXVL/ENG MT	WB4IOB	52.15	53.15	*	
MEMPHIS	WA4KOG	52.01	53.01	N	

PACKET

ELIZABETHTON	WB4BFS-2	145.01	PKET	N	K
KNOXVILLE	KB4NK-1	145.01	PKET	*	K
KNOXVL/CROSS MT	WA4YON-1	145.01	PKET	N	K
MEMPHIS	WB4MQD-1	145.33	PKET	N	K
PIKEVILLE	K4MJM	145.01	PKET	*	K
SHORT MT	W4YXA-1	145.01	PKET	N	CK

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255		PA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	*	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	*	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	*	
BEDFORD	WB4JBJ	147.705	147.105	*	LRPA
BLACKSBURG	AB9I	146.115	146.715	*	
BLACKSTONE	W4AXH	146.235	146.835	N	P
BLAND	N4AZJ	144.75	145.35	*	L
BLUEFIELD	W8MOP	144.89	145.49	*	
BLUFLD/ER MT	KD8MZ	146.025	146.625	*	
BRISTOL	WD4CYZ	146.28	146.88	N	
BROMLEY MT	WR4ATJ	146.01	146.61	N	
BUCHANNON	N8FHE	144.53	145.13		
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	*	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	*	
CHESAPEAKE	K4NDH	144.69	145.29	N	EA
CHESAPEAKE	N4GSP	146.01	146.61	N	PA
CHESAPEAKE	N4SD	146.19	146.79		A
CHESTERFIELD	KA4CBB	147.96	147.36	*	
CHESTERFLD CO	WA4ECM	147.66	147.06	*	A
COVINGTON	WA4HTI	146.205	146.805	N	
CREWE	K4ARO	144.55	145.15		P
CULPEPPER	N4FAF	147.72	147.12	M	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	*	
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	*	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WA4QQF	144.73	145.33	N	P
FARMVILLE	WB4NWP	146.31	146.91		
FINCASTLE	W4WIC	146.04	146.64	*	
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	*	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	*	A
GALAX/LKOUT MT	N4VL	144.53	145.13	*	EA
GATE CITY	WD4GTA	147.945	147.345	N	
GLOUCESTER	KA2IMI	144.77	145.37		
GRUNDY	K4HWQ	147.92	147.32	N	ANB
GRUNDY/BIG A MT	WD4DCX	147.855	147.255	N	
GUM SPRING	KB4GX	147.87	147.27	*	
HAMPTON	K4DHO	146.13	146.73		PA
HAMPTON	K4UMI	146.34	146.94	N	T
HAZEL MT	WD4CYZ	146.235	146.835	N	
HILLSVILLE	WD4BTJ	147.975	147.375	N	A
JONESVILLE	WA4OVC	146.31	146.91	*	
KILMARNOCK	W2MS	144.61	145.21	N	C
LEXINGTON	KI4ZR	146.07	146.67	*	A
LEXINGTON	KI4ZR	147.90	147.30	*	C
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	*	A
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	KB4ILD	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	*	PA
MARION	N4BIW	146.04	146.64	*	
MARTINSVILLE	AB4L	147.885	147.285	*	
MCLEAN	WD4IWG	147.81	147.21	M	R
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	
NARROWS/DISML PK	N4AZJ	147.735	147.135		
NEW MARKET	WB4DAK	146.025	146.625	*	
NEWPORT NEWS	WB4CTF	147.765	147.165		PA
NEWPORT NEWS	WA4OHX	147.975	147.375	N	PA
NORFOLK	NE4D	146.10	146.70	N	
ONEIDIA PEAK	KD8MZ	146.325	146.925	*	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.84	147.24	*	TPA
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	*	PA
PORTSMOUTH	N4MG	146.25	146.85		
RADFORD	KC4WA	147.645	147.045	*	
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	W4SQT	144.83	145.43	*	PA
RICHMOND	WB4QEY	146.04	146.64	*	PA
RICHMOND	WA4ZBE	146.28	146.88	*	EA
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	*	
SALEM	W4PDL	146.28	146.88	N	
SOUTH BOSTON	WD4LBM	146.46	147.06	*	
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33		
WAYNESBORO/FMS	W4BLD	147.63	147.03	*	
WAYNSBR/AFTON MT	W4PNT	147.675	147.075		L
WILLIAMSBURG	W4NTG	146.07	146.67		
WINCH/BLUEMONT	WA4TSC	147.90	147.30	N	
WINCHESTER	W4RKC	146.22	146.82	*	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHE/PULASKI	KC4VR	147.945	147.345		A
WYTHEVILLE	WA4EMS	146.175	146.775	*	
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
DAN/WHT OAK	K4OAK	223.16	224.76	N	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FRIES/PT LKOUT	WA4DFH	222.74	224.34	*	
PETERSBURG	K4ARO	222.40	224.00	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	*	
STERLING PK	WD4KHP	222.12	223.72	N	C
TAZEWELL	WA4QKH	222.66	224.26	N	P
TYSONS CORNER	WD4KHP	223.12	224.72	N	PL

440 MHZ

ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	*	L
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	N4EVG	448.90	443.90	*	A
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FINCASTLE	W4WIC	448.75	443.75	*	
HAMPTON	K4UMI	448.65	443.65	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
NORFOLK	W4WIN	439.25	426.25	N	V
NORTHWEST/SE VA	KR4K	448.80	443.80	N	
OILVILLE	WA4UTF	449.80	444.80	N	P
PETERSBURG	K4ARO	449.85	444.85	*	
RICHMOND	K4ARO	449.65	444.65	*	
ROANOKE	WB4DBB	446.65	446.65	*	RBL
ROANOKE	N4HON	447.70	442.70	*	
ROANOKE/POOR MT	W4CA	447.50	442 50	*	

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.		T	Tone Access Repeater
★	Honor Roll Full Member	L	Linked Repeater
D	Deliquent Membership	K	Packet Operation
N	NON Member SERA	R	Radioteletype Oper.
NB	Not on SERA Band Plan	V	Television (SS or ATV)
M	T-MARC Terr. Rptr.	P	Proposed Repeater
A	Autopatch (Open)	C	Under Construction
PA	Private Autopatch	O	Off Air Temporarily
EA	Emerg. Autopatch	RB	Remote Base System

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This CVRA-SERA Official Repeater Index Is Correct As Of October 13, 1986

MORE VIRGINIA REPEATERS

SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	WA4ZBP	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WD4SDC	449.00	444.00	N	P
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	
WAYNESBORO	W4BLD	449.30	444.30	*	TPA
WAYNSBR/AFTON MT	W4BLD	449.05	444.05	*	
WILLIAMSBURG	W4NTG	448.95	443.95	M	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WOODBRIDGE	WB4FQR	444.90	449.90	M	

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	*	RB
RICHMOND	N4MXT	29.52	29.62	N	P
STERLING	KD4DN	29.58	29.68	M	P

6 METERS

ABINGTON	WR4ATJ	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	*	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	*	
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
FAIRFAX	KA4DCS	52.58	52.48	M	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
LOUISA	KA4NNN	52.07	53.07		
NORTN/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	NB4B	52.43	53.43	N	
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L

PACKET

CHARLOTTESVILLE	WA4TFZ-1	145.01	PKET	*	CK
CHARLOTTESVILLE	WA4TFZ-2	145.01	PKET	N	K
COVINGTON	WA4PGI-1	145.01	PKET	N	K
FORK MTN	WA4FRV-3	145.01	PKET	N	K
FREDERICKSBURG	KB4OB-1	145.01	PKET	N	K
GARRISONVILLE	AA4PB-1	145.01	PKET	N	K
GLEN ALLEN	K4ARO-1	145.01	PKET	*	K
HAMPTON	K4UMI-1	145.01	PKET	N	K
HAMPTON	K4UMI-5	145.01	PKET	N	K
LYNCHBURG	K4LKQ-1	145.01	PKET	N	K
MIDDLEBURG	WA4TSC-1	145.01	PKET	N	K
PARKSLEY	KJ4AG-1	145.01	PKET	N	K
ROANOKE	N4FHL-1	145.01	PKET	N	K
STEPHENS CITY	W3CSG	145.01	PKET	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	PKET	*	K
WASHINGTON, D.C.	WB4JFI-5	145.01	PKET	N	K
WAYNESBORO	W4BLD-1	145.01	PKET	N	K
WOODBRIDGE	WB4FQR-4	145.01	PKET	N	K
WOODBRIDGE	KA4USE-1	145.07	PKET	N	K
WYTHE/PULASKI	KC4VR-1	145.01	PKET		K

WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	KC8FW	144.77	145.37	N	LA
BKLY/FLAT TOP MT	K8BO	146.25	146.85	N	A
BLUEFIELD	W8MOP	144.89	145.49	*	
BOLT MT	KD8X	144.57	145.17	*	L
BRIDGEPORT	K8VNQ	147.72	147.12	*	EAL
BUCKHANNON	WD8LND	146.04	146.64	N	
BUCKHANNON	K8WYH	146.25	146.85	N	
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CLARKSBURG	N8FMD	146.22	146.82		
CLARKSBURG	WB8DTM	146.50	52.525	N	NB
CLARKSBURG	KA8OHX	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27		L
DUNBAR	K8VKI	147.72	147.12	*	EA
EAST RIVER MNT	WD8OGY	146.355	146.955	N	A
ELKINS	WD8LND	144.69	145.29	N	P
FAIRMONT	W8SP	146.30	146.90		NB
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	KA8HEZ	146.115	146.715	N	
GRAFTON	K8VNQ	147.975	147.375	*	L
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21		R
HUNTINGTON	W8KA	146.16	146.76	*	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	
JANELEW	KD8RD	147.675	147.075	N	P
KINGSTON/LICK KB	W8FG	144.87	145.47	*	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	*	L
LEON	WB8NMT	147.78	147.18	N	
LIBERTY	K8SLI	144.81	145.41	N	P
LOGAN	WA8ZLR	146.09	147.11	N	ONB
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	*	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	*	PA
MORGANTOWN	K8LG	144.83	145.43	N	L
MORGANTOWN	W8CUL	146.16	146.76	*	LPA
MULLENS/HRNDN MT	KC8IT	147.63	147.03	*	LA
NEW MARTINSVLLE	WB8CSW	146.54	146.94		NB
OAK HILL	K8CFT	146.19	146.79	*	EA
PARKERSBURG	WA8CRW	146.37	146.97		
PARKERSBURG	W8JZN	147.99	147.39		
PARSONS	K8VNQ	144.73	145.33	*	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KA8PNC	146.46	147.06	*	A
RAVENSWOOD	WD8JNU	146.07	146.67	*	
RAVENSWOOD	WD8JNU	146.10	146.70	*	R
RIPLEY	K8SNW	146.31	146.91	N	P
SALT ROCK	WD8MCR	144.51	145.11	N	
SCOTT DEPOT	K8SLI	147.87	147.27	N	A
SHERRARD	KD8GL	146.115	146.715	*	EA
SPENCER	N8APG	147.705	147.105	N	P
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	K8WMX	147.975	147.375	*	R
ST ALBANS/COAL	WB8KAD	146.12	146.72	N	PA
ST ALBANS/COAL	WB8OEC	147.75	147.15	N	
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94		
TERRA ALTA	KD8ZR	147.60	147.00	*	PA
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	W8YFX	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	N8GEO	144.73	145.33	*	PA

220 MHZ

HUNTINGTON	KA8BKX	222.54	224.14	N	
KINGSTON/LICK KB	W8FG	223.14	224.74	*	
WILLIAMSON	N8ENR	223.00	224.60	N	P

440 MHZ

CHARLESTON	KU8R	439.25	421.25	N	V
HERNDON/HRNDN MT	N8CYH	449.00	444.00	*	
HUNTINGTON	KA8QYO	449.50	444.50		
LICK KNOB	N8FRV	449.80	444.80	*	
LOGAN/WARD RK	WB8FQJ	449.40	444.40		P
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	*	PA
ST ALBANS	WD8OZT	449.60	444.60		

6 METERS

BOLT/BOLT MT	N8DKL	52.05	53.05	N	
DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB
ST MARYS/BENS R	WD8RET	52.17	53.17	N	L

PACKET

HUNTINGTON	KA8EUV-1	145.01	PKET	N	K
LOGAN/BLAIR MT	WB8FQJ-1	145.01	PKET		K
MORGANTOWN	N8BHI-1	145.01	PKET	*	K
ST ALBANS	K8SLI-1	145.01	PKET	N	K

Catch The Spirit of '86!

Get a friend to join CVRA-SERA as an Associate Member.

CVRA-SERA REPEATER SYMBOLS

Unmarked	- 1st Column - Full Mbr.	T	Tone Access Repeater
★	Honor Roll Full Member	L	Linked Repeater
D	Deliquent Membership	K	Packet Operation
N	NON Member SERA	R	Radioteletype Oper.
NB	Not on SERA Band Plan	V	Television (SS or ATV)
M	T-MARC Terr. Rptr.	P	Proposed Repeater
A	Autopatch (Open)	C	Under Construction
PA	Private Autopatch	O	Off Air Temporarily
EA	Emerg. Autopatch	RB	Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

New Assistant Directors Names for West Virginia

Karl Morris, WB8GDY, Director of the West Virginia District announces the appointment of two new Assistant Directors for that state. Handling things in the Northern part of the state will be

Northern Assistant Dir.

R.T. (Dick) Fowler, N8FMD
Route #3, Box 52
Clarksburg, WV 26301
(304) 623-9479

The new Southern Assistant named to assist in Coordination is:

Southern Assistant Dir.

M.E. (Mac) McMillian, WD8OZT
2537 Larwood Drive
Charleston, WV 25302
(304) 346-6006

Repeater owners in the areas covered by these new assistants may call on them for assistance or other information provided by CVRA-SERA. (Editor's Note: Information received too late to put on back cover of Journal).

DEFINITION

HAM OPERATOR -- Extraordinarily dedicated individuals who devote hours of study of electronics, mathematics, regulations, and Morse code in order to be allowed to discuss the weather over the radio.

A Space Station Hamshack May Be In The Future

— Compiled from W5YI & Worldwide

As a result of a meeting at the ARRL National Convention in San Diego, there is a distinct possibility that a permanent Ham Radio Shack may be aboard the NASA Space shuttle which is due to be launched in 1995.

The meeting, reported by "Amateur Satellite Report" the biweekly AMSAT member newsletter, was attended by representatives of NASA, AMSAT and the ARRL, and arranged by Roy Neal, K6DUE.

Dr. Tony EnglandWOORE is quoted in Worldradio as saying the minimum station requirements aboard the U.S. Space Station would be two-way voice and two-way video.

He said there were three objectives of having Amateur Radio aboard the permanent space station. (1) Recreation, (2) Repeater, and (3) Education.

In recreation, the station would provide something for the people on board to do while spending as much as six months living in space. As for a repeater, the facility, when not being used by the NASA Amateurs, could be configured into some sort of OSCAR. The third and most exciting use for the amateur station in the space would be its use as an educational tool. For instance, roving equipment vans on the ground, loaned to radio clubs to set up at classrooms. School science classes could have a session a month with the space station. The scientists could tell the kids in the classrooms about the excitement of the experiments on board.

The W5YI Report indicated that Novice Classes were held this past summer for six astronauts to try to get new amateurs, but only one passed, mainly because of pressures of other NASA duties and having to move around all the time.

The FCC requires Extra Class licenses to transmit from space, and special licenses had to be granted to England and Owen Garriott when they made their historic amateur transmissions from space.

England, a geophysicist, has now assumed the lead amateur NASA astronaut role now that Dr. Owen Garriott has retired. England said he thinks it is a "for sure" thing that Amateur radio will be part of the permanently manned space station in the '90s.

"It's just a matter of working things out between now and then," he said.

NASA recognizes its education function in its charter and the education office is very supportive.

England said that the next amateur radio payload in space will probably be on ASTRO-1, a space-lab type mission due to fly in late '88 or '89.

ALABAMA REPEATERS

2 METERS

ONLY Full Member Repeaters Listed

ANNISTON	N4FIV	146.10	146.70	*	A
BESSEMER	N4AHN	144.55	145.15	*	L
BESSEMER	N4LJE	144.79	145.39	*	
BIRMINGHAM	N4IQT	144.59	145.19	*	
BIRMINGHAM	WB4TJX	144.63	145.23		
BIRMINGHAM	WD4BXA	147.285	147.885		A
BIRMINGHAM	WA4MHO	147.94	147.34	*	
BREWTON	WA4TYH	146.37	146.97	*	
DOTHAN	WA4QEO	144.83	145.43		
DOTHAN	KE4MZ	146.24	146.84	*	A
DOTHAN	WA4ZPI	147.94	147.34	*	
DOUBLE OAK MT	N4DMA	146.38	146.98	*	
ENTERPRISE	WD4ROJ	147.84	147.24		
FLORENCE	WB4NQH	146.22	146.82		A
FOLEY GULF SHR.	WB4OWS	146.085	146.685		
FORT PAYNE	WA4PJE	147.86	147.26	*	A
GREENVILLE	K4TNS	146.07	146.67		
GUNTERSVILLE	K4CZZ	147.98	147.38	*	
HALEYVILLE	WA4YYL	146.18	146.78		
HEADLAND	WA4WIE	147.80	147.20		PA
HUEYTOWN	WA4JUM	147.74	147.14	*	
HUNTSVILLE	N4UV	147.70	147.10		
HUNTSVILLE	N4AVB	147.90	147.30		
JASPER	WB4ACN	146.30	146.90	*	
LANETT	K4DXZ	147.60	147.00	*	
LINCOLN	KC4OX	144.89	145.49		EA
LINEVILLE	WB4VBA	144.83	145.43		
MONTGOMERY	NR4A	144.51	145.11	*	
MOULTON	N4AKW	146.36	146.96		EA
MT CHEAHA	WB4GNA	147.68	147.08	*	
MUNFORD	W4NTI	146.14	146.74	*	EA
MUSCLE SHOALS	WB4NAH	146.08	146.68		A
OZARK	KA4AFI	144.53	145.13		A
PELL CITY	KB4LPR	144.77	145.37		A
PELL CITY	N4ISB	147.62	147.02	*	PA
PHENIX CITY	WA4QHN	146.12	146.72		
TUSCALOOSA	KX4I	144.75	145.35	*	
TUSCALOOSA	KX4I	147.66	147.06	*	
TUSCALOOSA	WD4DAT	147.90	147.30		
WARRIOR	WB4YOX	146.24	146.84	*	
WATUMNPKA/MONT	WA4PRY	146.32	146.92		A

220 MHZ

BESSEMER	N4AHN	222.54	224.14	*	A
PLEASANT GROVE	KD4EM	223.34	224.94	*	PA

440 MHZ

BIRMINGHAM	K4FUM	444.30	444.90	*	
BIRMINGHAM	KB4KCH	448.75	443.75		C
BIRMINGHAM	N4DJR	449.20	444.20	*	
BIRMINGHAM	WA4MHO	449.55	444.55	*	
CHEAHA MTN	WA4URC	449.00	444.00	*	
CLANTON	NR4A	448.30	443.30	*	
DOTHAN	WA4ZPI	449.05	444.05	*	
HIGH LEVEL	KE4GA	449.975	444.975	*	
HUEYTOWN	N4DJR	448.80	443.80	*	
HUEYTOWN	WA4CYA	449.70	444.70	*	T
MONTGOMERY	NR4A	442.65	447.65	*	
PRATTVILLE	NR4A	442.925	447.925	*	
SYLACAUGA	KC4CM	447.50	442.50		
TUSCALOOSA	KX4I	447.90	442.90	*	

10 METERS

TUSCALOOSA	KX4I	29.56	29.66	*	

6 METERS

BESSEMER	N4AHN	52.15	53.15	*	
FT PAYNE/LKT MT	KB4CVN	52.03	53.03	*	PA
HAYDEN	N4CCQ	52.01	53.01	*	
LINEVILLE	WB4ODA	52.07	53.07		

PACKET

ENTERPRISE	WD4ROJ-1	145.01	PKET		K

WEST ANTENNA SERVICE – YOUR SOURCE FOR ROHN TOWERS AND ACCESSORIES

Rohn 25-G Straight Sections

In addition to a large stock of straight tower sections, we also have flat and sleeved top sections, trust bearings, house brackets, short base sections, rotor plates, guy assemblies, guy wire, cable clamps, turnbuckles – you will need for a complete tower installation.

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Made by 3-M Co. Can be used for underwater connections also. A 15 oz. can will do 50 to 100 connections.

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- **Unmanila – looks like manila . . . feels like manila . . . but it's not, it is a new polypropylene fibre**
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- **Twisted Nylon rope . . . regular 3-strand, medium lay nylon rope, the strongest rope in general use today. Will stand sudden shock.**
- **Solid braided Nylon Cord . . . very strong, soft lightweight, resistant to rot, abrasion, mildew, with shock absorbing elasticity.**

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1/4-inch	4-cents/foot
600-foot spool	16.88
1,000-foot spool	26.88
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600-foot spool	37.50

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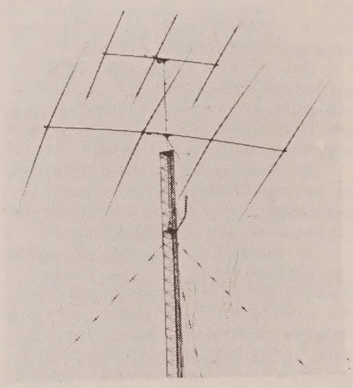
West Antenna Service can also supply 1/2 and 7/8-inch hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately 10 days.



BATTERY TAPS

Assembly provides connection to battery cable on the new side-terminal batteries, or any connection situation where terminals are not accessable. Slips over cable and set screw penetrates jacket for contact. Radio wire slipped into hole and second set screw tightens. Has proven quite adequate for high current needs.

Battery Taps	4.95 ea.

POLYPHASER Lightning Suppressers

High quality commercial units. Low loss, low noise. Frequency range through 1 Ghz. Bulkhead and inline types available, including rotor cable and D.C. control lines. Call for prices.

2-way shops are urged to check for Dealer Pricing.

MISCELLANEOUS

PL-259 CONNECTORS (U.S. Made)	65¢ ea.
10 or more	60¢ ea.
UG-175 or 176 ADAPTERS	30¢ ea.
10 or more	25¢ ea.

Other Tower Accessories

Aluminum mast pipes, feature 2-inch OD 6061 tubing with 1/4-inch wall.

12-foot lengths, 19 lbs. - In Stock
24-foot lengths, 38 lbs. - In Stock

Touch rust spots on your tower and antenna bolts with RUSTOLEUM, cold galvanizing.

Large 20-oz. Industrial spray can	$6.00

Stainless Steel Strapping Kits

Stainless steel strapping kits, for strapping hard line or multiple runs of Coax. Kits come with 25, 50 or 100-feet of stainless steel strapping and buckles.

25-foot strapping kit	$18.00
50-foot strapping kit	$25.00
100-foot strapping kit	$36.00

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We have what you need — wire, fuse blocks, fuses, connectors, relays! You want your Mobile Low band or amplifier installation to work efficiently. We have the proper wire, fusing and parts needed for a perfect installation.

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#10 wire	30¢ per foot
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FUSE BLOCKS – Our fuse blocks are rugged holding fuses much larger than the little 3AG glass type. This prevents overheating and voltage loss with high currents. Set screws in end of fuse blocks will accept wire up to #6.

30-Amp Fuse Block	$4.95
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FUSES—5,6,7,8,10,20,25,30 Amp	80¢ each

35,40,45,50 & 60 Amp. Fuses also available upon request.

RELAYS—These Motorola Type A style relays can be installed near the fuse block in the fenderwell and remotely switched under the dash with a small toggle switch. Excellent for switching high current lines. Relays are a closed type with screw terminals for mounting. .... Special $13.95

40-Amp cont. duty, solenoid-type, 12V 19.95

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GUY WIRE INSULATORS – Compression-type porcelin. Approx 1½x2½-inches, 3/8-inch hole

Insulators	$2.00 each
10 or more	$1.80 each

STEEL WIRE – Zinc coated. Can be used for antennas or light guy wire, not recommended for tower guying. Sold in 10 lb. coils only.

#9 approx. 170-ft.	$13.00
#12½ approx. 382-ft.	$13.00
14-gauge Solid Copper THHN insul. 500-ft. spool	$15.00

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For The Traveling Ham - Some Tips

—Special to the Journal
by Gil Frey, K4JST

There are a number of reasons to consider taking Amateur radio equipment along when one travels. For some it is just the enjoyment of getting on the air while they are on vacation and have the time. It may be an opportunity to escape the spouse and kids, at least mentally. Some enjoy keeping schedules with friends back home or at the destination while they are in transit. Two meter FM is always a way to get road information from local hams or advice on what to do and see and what to skip. All these reasons may have occurred to you at one time or another, but a vacation can also be a time to test the ability of your equipment to function in a portable environment for extended periods of time. Just the sort of situation to be faced in an ARES drill or a real emergency.

Before planning that next vacation trip, consider taking HF and 2 meter equipment along. Some planning ahead of time is likely to be needed. Areas that one will need to look at include: 1) equipment selection, 2) power sources, 3) safety, 4) antennas, and 5) accessory equipment.

Equipment Power Sources and Safety

For most, the equipment you are likely to use is the same as you have in the shack right now. This is not much of a problem if it will run off 12 volts DC, but you might make this one feature more than an afterthought when you replace equipment in the future. While it is not impossible to run equipment requiring 110 volt AC from a 12 volt source using an inverter, consider what you are really adding to your problem. Inverters tend to be big, heavy and expensive even for moderate loads like a 100 watt output transceiver. Inverters are seldom over 50% efficient in their power conversion ie that transceiver draws 200 watts to produce 100 watts out and the inverter draws 400 watts to produce the 200 needed in the first place.

Take the $300 plus that a 400 watt inverter is going to cost and enjoy a few more days at the beach this year and next. Buy a 12 volt rig in the first place. You will also have to make up a power cable ahead of time and remember to include a circuit breaker right at the battery terminal to protect against fire from a short circuit. Do not even think about using cigarette lighter plugs for rigs running 25 watts and higher.

If you have a camper, van or RV, consider installing a separate deep discharge type battery just to run the radio equipment (nothing is more disconcerting to the rest of the family than to have the lights dimming at 35 WPM while you keep a sked). Sears is now marketing a totally sealed deep discharge cell that may prove to be perfect for use in closed vehicles.

Antennas

Antennas are the one area where one can seldom use their home system when on the road. Normally the first attempt at a portable HF antenna is to try one of the mobile whips. This is generally the least satisfactory antenna in terms of performance. I am sure all have heard a tale of the mobile operator in Kentucky running JAs for an hour or so on 15 meter SSB. It is bound to happen once or twice in a lifetime, but most of the contacts tend to be short and frustrating and many more calls go unanswered. The compromises involved in a short vertical antenna working against a poor ground at street level are not likely to add much to your vacation operating pleasure.

As a general rule, plan to use a wire antenna with as much length and as

(Continued on Page 32)

CLASSIFIED

REPEATER FOR SALE. 146.475-147.075 machine has: Autopatch, Wacom Duplexer, 100-ft. tower, 7/8-inch hardline and J-Pole antenna. The whole thing for $1,200. You take down the tower. (919) 227-6356.

• • • •

KILOWATT POWER - The new Tokyo Hy-Power HF amplifier. One kilowatt DC power input, continuous duty. Uses 2 4CS250B tubes. WILLIAMS RADIO, 1-800-523-0347. In N.C. call (919) 993-5881. Limited Supplies at $859.00 plus shipping. Price increases due soon.

• • • •

LOW BAND STATION For Sale. Signal-One, 4CS1000A (KWS-1 copy) all-band table-top linear, TH-6 DXX triband antenna. You take down the antenna. $1,200 for everything. Firm! No trades. (919) 227-6356.

• • • •

HOT-P JOURNALS. Get your Repeater Journal mailed First Class the day it comes from the printer. HOT-P Associate Membership only $10.50 per year. Contact CVRA-SERA Associate Membership Chairman.

CVRA-SERA DIRECTOR / VICE-DIRECTOR NOMINATION FORM

To CVRA-SERA Secretary:

The below named person(s) are nominated to office(s) listed below. The persons nominated have been contacted and have expressed a desire to serve if elected. The nominee is a FULL MEMBER of CVRA-SERA and is eligible to hold office in the organization. It is understood that this nomination from the floor, signed by myself and three other full members will be added to the nominating committee's list of nominees. If this nomination is the only one submitted for this office, that person shall be elected to the office. If more than one is nominated for any one office, an election will be held by written ballots mailed to every full member of CVRA-SERA.

Office person is nominated for ________________________________
(Director or Vice-Director)

If more than one nominee, use xeroxed copy or simular sheet of paper.

Name of nominee ______________________ **Call** ______________

Address ________________________________ **Phone** __________

Is A representative of ______________________ **repeater (a full member)**
(Call-City-Freq)

Person has been contacted and has agreed to serve to best of his ability if elected to the office nominated (   ) Yes

Include brief Biographical sketch of nominee and his achievements in Amateur Radio and /or CVRA-SERA. (Use separate sheet of paper)

This nomination certified by me ______________________ **Call** __________

member of repeater ________________, **a full member of CVRA-SERA.**

Three other full members:

______________________ **call** ____________ **repeater** ____________

______________________ **call** ____________ **repeater** ____________

______________________ **call** ____________ **repeater** ____________

Other full members must sign their signature personally.

Mail this form with attached biography to arrive NO later than November 30, to:
NITA MORGAN, CVRA-SERA SECRETARY, 1504 Woodnymph Trail, Lookout Mt., Tn. 37350

A Repeater Goes DX?

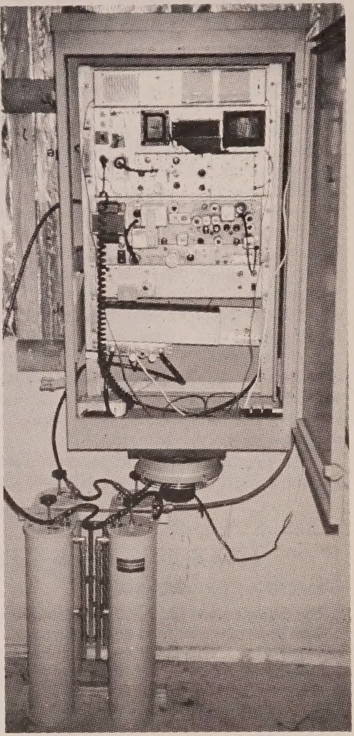
After two years of looking for a two meter frequency pair -- and finding none -- the Carolina DX Association has "struck gold". Back in May of this year, negotiations were concluded between the Watauga Amateur Radio Association and the Carolina DX Association for the 147.96 - 147.36 machine on Rich Mountain near Boone, N.C. At that point, the frequency pair was cleared through the CVRA-Southeastern Repeater Association and North Carolina's second DX repeater became operative. Trustee of the repeater is KU4V, Wayne Starnes of Charlotte, N.C.

Since that time, a number of improvements have been made to the repeater through the good hands of Stoney Owen, WB4PZA of Wilkesboro, N.C. More changes are ahead, which include a voice ID unit and a DB products antenna. Currently the repeater is made up of a GE Master Pro, Wacom Duplexers and Hustler G-7 antenna. Too date, activity has been logged from East Tennessee, Central, N.C., Southwestern VA and as far South as Greenville, S.C.

The purpose of the CDXA repeater is a bit different than most machines throughout the area, as it's purpose is strictly devoted to DX exchange, DX nets and other related DX matters. On Wednesday evenings at 8:30 PM local time a net is held to read over all the weekly DX bulletins, exchange QSL information and other topics of interest to the DX'er. The net is open to all interested DX'ers, either as a member or non-member of the Carolina DX Association. The CDXA is based out of the Charlotte area, but boasts of over 100 members throughout a five state area. For more information about the CDXA, just contact KD4RH, Gary Bader, P.O. Box 3663, Rock Hill, S.C. 29730. Annual dues are $15.00.

For those amateurs within working distance of the repeater are invited to take advantage of this machine either as an active low-band DX'er or a beginning DX'er.

The 1986 officers of the Carolina DX Association are: President - WA4VCC, Ted; Vice-President - KF4NO, Robert; Secretary/Treasurer - KD4RH, Gary; Bulletin Editor - W4WMQ, Murf; and Net Manager - N4AXT, Hugh.



The CDXA 96-36 repeater is a GE Master Pro mounted on the wall with Wacom duplexers positioned on the floor. Control unit for the repeater is to the right, but out of sight. See our cover this issue for picture of antenna being raised to the 4,500 foot level on Rich Mountain, near Boone, N.C.

1986 Full Members Note - Renewal Form In Journal

All 1986 Full Member repeaters are reminded that Full Membership renewals WILL NOT be mailed this year as in the past. If you wish to renew for 1987, find the Application in the Journal this issue, fill out ONLY the top portion and mail it in with your $15.00 fee.

New members, or those not members in 1986 wishing to join, should fill out the entire application.

Lumberton 220 Repeater Finally On The Air

— by J. Charles Layno, WB4WOR

After a year full of delays, the Lumberton 222.54-224.14 Mhz 220 repeater is finally on the air. The repeater pair was co-ordinated in August of 1985. Three months before the pair was co-ordinated, work began on site location.

In July of 1985, a site was found at the 600 foot level of a new FM radio station. In order to get this lofty height, the repeater would have to be installed after construction of the tower was complete, around the end of September or first of October. Due to FAA hang ups, the tower was not completed until March of 1986. By this time, the site had become unavailable due to unknown reasons. With six months wasted, site location began for the second time.

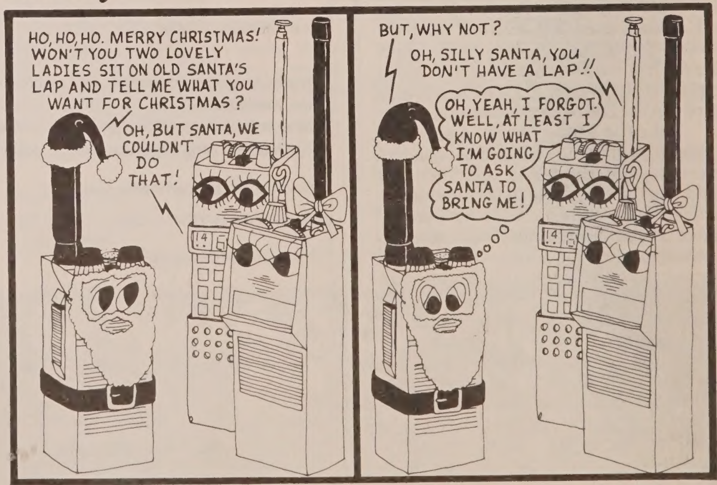
Currently, the repeater is operating at a temporary site on the north side of Lumberton at 180 feet. A higher location is being sought on two new towers going up in the Lumberton area. Both towers are in the 800 to 900 foot range. The goal height is around 600 feet.

At the 180 foot level the range is about 35-40 miles mobile and 50-60 miles fixed. The repeater is a modified Clegg FM-76 running 10 watts with a Advanced Receiver Research pre-amplifier. Antennas are two Ringo Rangers, with two Hy-Gain V-3S antennas to be used at the permanent location.

The Call WB4WOR RPT is being used. The "54-14" repeater is an open repeater with voice communications as its primary mode and Packet used as a secondary mode. Experimentation is welcomed and encouraged. We wait to hear you on 220Mhz!

Stubby

by Fred Hurteau, WD4SKH


HO, HO, HO. MERRY CHRISTMAS! WON'T YOU TWO LOVELY LADIES SIT ON OLD SANTA'S LAP AND TELL ME WHAT YOU WANT FOR CHRISTMAS?
OH, BUT SANTA, WE COULDN'T DO THAT!
BUT, WHY NOT?
OH, SILLY SANTA, YOU DON'T HAVE A LAP!!
OH, YEAH, I FORGOT. WELL, AT LEAST I KNOW WHAT I'M GOING TO ASK SANTA TO BRING ME!

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Tennessee Tidbits

— *by Tom Park, WD4KWP*

The Great Packet Jumble

In the past few years many people have succumbed to the "need" of a computer. The next logical step for the ham who has one of these marvelous toys is to tie it into the radio! So now we have PACKET.

The only problem with packet is that it has grown too fast. In some areas of Tennessee, there are so many people operating on 145.01 that it may take 5 minutes for a return message to get back from the station to whom you are connected.

I believe that it is time for the packet operators to sit down together and make some decisions as to the future of this new facet of our hobby. There are many things to be decided that I as the frequency coordinator should not have to think out without your input.

Would you like to help setup a statewide packet group? Has yur local group already worked out some ideas for a gateway or backbone system? If so, PLEASE write me! Several States around us have already setup their own packet advisement groups. We will not have to come up with all the answers, just the ones that are pertinent.

CVRA-SERA is not in the Packet coordinating business, we only preserve the Digital frequencies for Packet. This is even the more reason we need a Statewide Packet organization, to help coordinate things.

Packet news: There are several new high altitude digipeaters that have gotten on the air in the last few months. Short Mountain is on at long last and covering the Earth as you would expect it to do. Also a new one on Music Mountain (near Gallatin) is helping to make connections into Kentucky. A new antenna is planned for MM to give better coverage. K4MJM's unit at Pikeville has been on long enough for many people to know that it is a good path in that part of the state.

Cape Fear Prize Drawing Held at Shelber in August

The Cape Fear ARS 31-91 Repeater fund held their drawing for the 26-inch RCA Colortrak 2000 Console TV at the Shelby Hamfest at 2:00 p.m. on Aug. 30.

Winner of the TV was John Weakly, N4NTA of Fayetteville, N.C. The club had been selling tickets for the TV to upgrade their repeater.

WEST VIRGINIA NOTES

By: Ted Wolfe, WD4KHL

As I've indicated previously I can't write a long, informative column for each issue of the **Repeater Journal** without your input. Since the last issue input from readers has been practically zilch. The Jackson County ARC at Ripley still has me on its newsletter mailing list. Likewise the TSRAC group in northern West Virginia.

In lieu of contributions from you, therefore, what you find here this issue is the result of my monitoring of 2-meters in this area, a few personal QSOs, and the two newsletters.

Forty-two persons (hams and relatives) attended the Ripley club's picnic in September. Les Shockey, WB8SNO, offered a motion which was seconded and accepted at the meeting held in conjunction with the picnic to present a Certificate of Appreciation to Bob DeHart, N8GKJ, in recognition of his service as hamfest General Chairman for 1986.

The club itself received a Certificate of Appreciation from the Kootago Area Council, Boy Scouts of America, for the club's amateur radio demonstration during the Council Camporee last April.

• • • •

Mike Palmer, K8LG, Morgantown, a former CVRA Vice Director, North, for West Virginia, has been selected as the state's outstanding amateur for 1986.

• • • •

Amateur exams to be held in Fairmont during 1987 are listed as follows, with pre-registration dates for the test in parenthensis: 10 Feb. (13 Jan.); 12 May (14 Apr.); 11 Aug. (14 July); and 10 Nov. (23 Oct.). Your contact for further information is KU8C.

• • • •

Johnny Jones, WB8CQV, recently reported some facts regarding his 146.22/82 repeater in Charleston. It recorded 25-hundred hours of transmit time over the past four years with the machine available for use a minimum of 360 days out of each year.

• • • •

Jerry Sizemore, WD8SEN, president of the Putnam Amateur Radio Association, reported recently that WD8MOX and K8WOG spent Saturday, Aug. 23 installing a duplexer, changing an amplifier, and making other technical improvements to the Association's second K8SLI repeater at Liberty, WV, on 145.41. The Association's principal 1 repeater, also K8SLI, at Scott Depot, operates on 147.87/27.

PARA held its annual picnic late in the summer at Kanawha State Forest. I can't find the envelope on which I made a note of the date, but I was there and took some pictures. Unfortunately they didn't turn out as sharp as I'd hoped so I'm not submitting them for publication.

• • • •

The Charleston W8WHQ, 144.83/145.43 repeater was down for two weeks in late September. The trustee, R.L. Monroe, reported it back in service on Sunday, Sept. 28, with new hardline and other improvements.

• • • •

Over a dozen Charleston area hams pooled their resources on Sept. 21 to lease a van to carry them to the Cincinnati Hamfest. They departed quite early in the morning and returned in early evening after spending the day at the event held at Striker's Grove. northwest of the Cincinnati downtown area.

• • • •

Some two dozen individuals turned out Sept. 19 in Charleston for the examinations administered quarterly by the Charleston area VEC group. I have no breakdown on license classes tried for or the pass-fail rate.

• • • •

Larry, WA4RHY, has moved from Huntington to Charleston. He's one of those very much into packet here in the Kanawha Valley. At deadline he told me there had been no further movement toward organizing a statewide packet group in the Mountain State. There was some discussion toward such a goal at the Charleston area hamfest but no definite agreement resulted.

• • • •

Charles "Skip" Hall, K8SOR, told me on Sept. 30th that the retina of his left eye is still somewhat detached but the eye is clearing following his accident on Aug. 31 during Charleston's week-long STERNWHEEL REGATTA FESTIVAL.

Skip and Mike Duff, N8GXP, were furnishing backup communication aboard the fireworks barges in the middle of the Kanawha River on the big fireworks night. Skip described the scene as a towboat and four barges. The one next to the towboat was empty and served as a safety barrier. Then came a fireworks barge, a control barge, and a final fireworks barge.

Mike and Skip were on the control barge when a 16-inch mortar, the largest fireworks item in use that night, exploded a few feet out of the tube. Mike, about 150 feet away, escaped injury, but a golf ball size star element made up of white phosphorus struck Skip, who was 65 feet (measured) from the mortar, just below the left eyebrow.

The following Monday Skip spent three hours in surgery for burns and laceration repairs. I'll report next issue on further recovery. Sometimes we do have to pay a price for our VOLUNTEER efforts. As a city sponsored event, one of the big ones each year in Charleston, there was insurance to guard against such occurrances.

• • • •

Incidentally, I do like the new subscription renewal reminder now in use to notify associate members when their membership (and subscription to the **Repeater Journal**) expires. I'll get my renewal in this week. In the meantime I hope I receive the November **Journal** in order to file a copy of this article.

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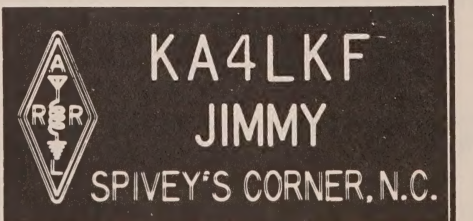

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Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

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MAY Issue–Mar. 20
AUG. Issue–June 20
NOV Issue–Sep. 20

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: We can provide one additional color on our standard color pages for $25.00.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

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Full Page Bleed (any sides)	8-1/2″ x 11″	100.00
2/3 Page (Vertical)	4-5/8″ x 9-7/8″	65.00
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1/2 Page (Vertical)	3-1/2″ x 9-7/8″	48.00
1/2 Page (Vertical 2-col)	4-5/8″ x 7-1/8″	48.00
1/3 Page (Vertical Only)	2-1/4″ x 9-7/8″	35.00
1/4 Page (Vertical Only)	3-1/2″ x 4-3/4″	28.00
1/6 Page (Vertical)	2-1/4″ x 4-3/4″	18.00
1/6 Page (Horizontal)	4-3/4″ x 2-1/4″	18.00
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TIPS FOR THE TRAVELING HAM

(Continued Page 27)

much height as you can whenever you can. This may take some planning and improvising, but it will still be far more effective than a whip. Since one does not normally know how much space is going to be available, take a number of different lengths of wire with some means of patching them together. A center fed antenna at or near full size even at 15 or 20 feet works very nice. Since 135 feet and two or three supports may well be out of the question at a campground, consider using one or more loading coils to shorten the physical size.

Erecting such an antenna need not be time consuming or dangerous. While it may be very easy to shoot lines over tree limbs with a bow and arrow or to cast them over with a fishing pole, these techniques are too dangerous to use in most camp situations. A simple beanbag (the size of two fists) filled with sand will allow tosses of 20-30 feet and will not dent a car hood or your kid's head if the bag goes astray. Rig up several winding sticks with 40 to 60 feet of masons twine and you are all set for most situations.

If there are not enough supports in the proper locations, consider using only one side of the dipole and feeding it as an end fed wire. Feedline normally will be coax (use a nice grade of RG8X). Cut a 100 foot length at 65 and 35 feet and bring along a barrel connector (thus you have 35, 65 and 100 ft. of coax, all in two coils).

The large PVC covered open wire line also works just great for portable situations and has the advantage of allowing multiband operation without traps or having to go out and shorten the antenna. Since a tangle can be a major problem when it is raining or you are in a hurry, make sure you have something to wind the wire on for storage. The light weight plastic extension cord winders that most hardware stores sell are ideal for this. Consider using a PVC covered wire to minimize kinks. Automotive supply houses have nice heavily insulated wire in 14 and 16 gauge (don't even consider household Zip cord, it is too heavy, expensive, and horribly weak for antennas).

A good transmatch is an absolute must when using antennas near the ground. Consider one with a built-in dual wattmeter rather than an SWR bridge. For two meters, take along "roll-up" wire and 15 feet of coax and another beanbag. This will work far better than your whip and mag mount. If you have a bigger vehicle, get a simple antenna with some gain and bean bag it up 30 feet or so and get ready for some fun at the beach or lake when the ducting starts (the basic Ringo Ranger or Isopole Jr are two good candidates for this use).

Accessories

In addition to the rig and antenna, you will want to plan on a clipboard to write. Perhaps some message blanks to send greetings home for other campers. A light source for night operation is easy to arrange if you think about it ahead of time (again don't plan on using the battery that runs the rig unless you like flickering on voice peaks). A battery powered clock helps, perhaps with an alarm for reminding you of schedules and a second dial showing UTC if you are traveling through several time zones. Headphones should also be part of the travel kit.

Vacation operation can be fun and very effective and efficient if you do some planning ahead of time. If you make it a regular part of your vacation, you will learn a great deal about what can go right and wrong when you take equipment portable.

DEFINITION

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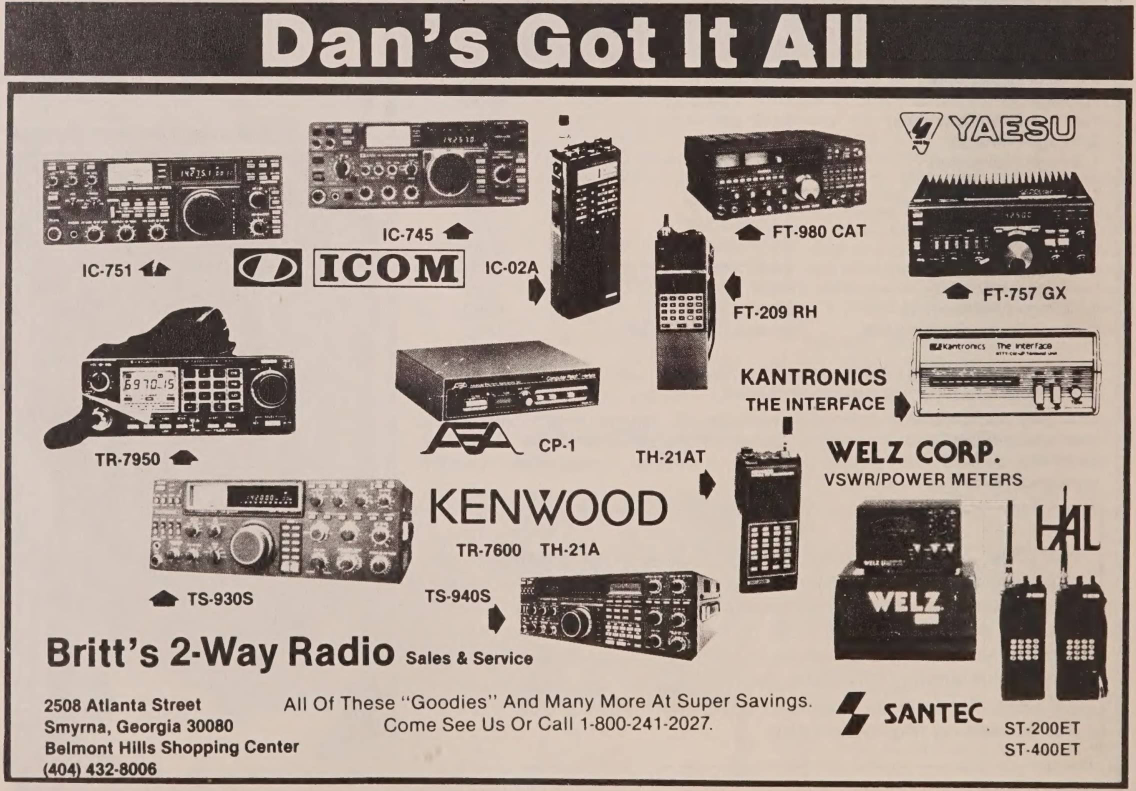
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Georgia News

—Compiled by Lindsay Cleveland, W4IZI

NOMINATIONS FOR OFFICERS

Since Georgia has been a district for a little over a year, it was felt that a poll should be made of the repeater representatives to determine their feelings about officers for the next two years. During the Repeater Forum at the Atlanta Hamfest last July, an *ad hoc* nomination committed was formed: Ed Loughlin, KB4KIN, Charles Pennington, K4FRM, and Fred Runkle, K4KAZ. At the Annual CVRA-SERA meeting at Shelby, they were officially appointed by President Carter Cogle to come up with a nomination slate.

A letter was sent to all of the Georgia repeater representatives with a mail-back form soliciting their opinion as to whether the current Director and Vice-Director should be nominated for another two-year term, or whether some other persons should be put forward. It was unanimous! All of the responses checked the "keep the current officers" box. So the nomination committee reported back those results. Of course, if someone else wishes either job, they can put themselves forward in accordance with the provisions in the Constitution and By-Laws.

Our Vice-Director, John Robertson, N4BGL, has said that he would prefer this to be his last term. His family and business demands are increasing. So we shall be looking for someone to take over next time. Some hams have suggested that it might be good to have someone from the Metro Atlanta area.

• • • •

As those folks on the western side of the state are all too well aware, the upheaval in Alabama last summer has made some "situations" for the repeater users in Georgia. While I have not been in the middle of all that has transpired, some various comments have come my way from the folks involved. Without naming names, I would like to pass along what happened in one particular case.

An Alabama border repeater was told to go to a frequency which was only 5 Khz away from a Georgia repeater's frequency. The distance between the two machines was only about 100 miles and they were both wide-area repeaters. As you may well imagine, an interference problem developed. But for the most part, the users of both machines were encouraged by the trustees to keep a cool attitude on the air.

After a bit of time, with the problem not getting any better, the Southern Gentlemen who sponsor the Alabama repeater contacted the Georgia repeater sponsors and even offered to take their Alabama repeater off the air! But the Georgia repeater trustee did not wish for such a drastic step to take place, so both sites tried some power reductions and other technical steps to reduce the problem. Unfortunately, this did not completely clear up the interference, *so at the request of the Alabama repeater trustee* the Georgia repeater trustee filed a formal complaint to the F.C.C. The results of this caused some "action", but that is another story which I will not go into at this time.

The main reason I wish to share this anecdote is to show that the "Spirit of Amateur Radio" is still alive and well! We have all heard of some rather heated and even violent feuds between repeaters and their users in other parts of the country (and sometimes here in the South), but this was a fine example of the "Ham Fraternity" spirit. Both groups are to be commended for the fine example they have set for all to admire and follow.

FROM THE MOUNTAINS

DALTON: The folks up in the mountains are enjoying their new machine. The old rig has been replaced with a Yaesu repeater and an ACC controller. Now the joys of autopatch are being discovered by the users.

It is that time of year again when the big Marching Band competition is held in Dalton. And again the members of the Dalton Amateur Radio Club will be providing their valuable assistance.

THRU THE METRO

ATLANTA: Most peole think that April has 30 days, but a group of Atlanta-area hams know that it only has 10 days, and those are long ones, too! During those ten days, hams from all around the Atlanta area provided communications for the annual Shrine Circus: stationed along the midway, in the Big Top, and anywhere else they were needed. It was sometimes cold, sometimes hot, always dusty, and usually noisy, but they were always there and always alert. Fortunately, there were no major disasters. But for all the lost children rejoined with their parents, the occasional scraped knees, cut fingers, and "We need more popcorn here!" incidents, they were invaluable. It was a lot of time standing on sore feet, but a fine example of public service.

• • • •

This has been a busy summer for parades in the Metro Area. The first big one was the Coca-Cola Centennial which was televised. The folks in front of the cameras were very appreciative of the fine job the hams did in notifying them of changes in the parade order. When a float breaks down and must be pulled out, it is an embarassment for the announcer to say "Coming up next is the 'Fun in the Sun' float" and not have it appear!

Then came the Fourth of July parade, and again the hams from all around the Metro area showed up to help. There even was one ham visiting from Florida who offered his services.

TO THE PLAINS

ALBANY: The Chehaw A.R.S. folks are making sure that "public service" is alive and well. They have been helping the March of Dimes Walk-A-Thon and the Lowenbrau Century Ride (Bike-A-Thon). And just for good measure, their editor has published a CVRA-SERA application blank in the "Chehaw Chatter" newsletter, which is greatly appreciated.

• • • •

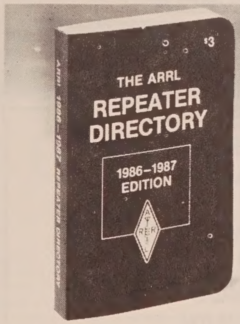
WARNER-ROBINS/MACON: The Central Georgia A.R.C. has been a strong supporters of CVRA-SERA. At the Hamfest in October, they put a CVRA-SERA forum on the program and invited me to speak. It is always nice to get the feedback from our District's hams, and I appreciate the friendly reception I received.

WRAP-UP

It is getting close to the end of the year, which means it will be time for repeater renewals in December.

So at the next club meeting, go ahead and make the motion now to renew the club's membership. That way the trustee can immediately send back the paperwork when it arrives, and your machine will have that "gold star" beside it all during 1987.

73 — Lindsay, W4IZI



THE HOT ONE!

Acceptance of our new pocket-sized **1986-87 Repeater Directory** has been phenomenal! There are 10,321 listings in the same size type as in previous editions. The 15th edition, copyright 1986 is $3. Please ad $2.50 for shipping by parcel post or $3.50 for UPS or available from ARRL dealers.

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1987 Calendar In This Issue Of Journal

The Editors of the Repeater Journal have compiled a complete listing as we have it, of all hamfests and conventions in the Southeast for 1987, and listed them in the back of this issue of the Journal.

Shows with UNCONFIRMED dates are based on last year's dates and are indicated "tentative" with an asterisk.

Sponsors of shows should write the Journal Editor before January 1, and give correct dates for their Shows, if we don't already have it.

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Technical — Low Profile Mobile Antennas

— by W.C. Spenn, KD4AK
San Antonio, Tx Reader

I was looking for something to replace the fold-down trunk-mount antenna on my wife's car. I was tired of closing the trunk and demolishing the mount or attacking the paint job and seal along the trunk's edge. I wanted an antenna that would be "low-profile" to discourage theft, the prime reason for using the fold-down mount, and I wanted an antenna that would be aesthetic in appearance. I received a catalog from Antenna Specialists and found a section on two meter disguise antennas, that look like standard broadcast band receive antennas. This seemed to be the answer to my problem.

If you are interested in this type of antenna, send for a catalog from Antenna Specialists and determine the type of antenna you want. They manufacture two types of disguise antennas for two meters. The first is a 1/4 wave whip, and the second is a 2.5 dB gain antenna. Once you have decided on the type you want, you need to look at the sub-type that fits your car. If you have a Ford or Chrysler product, there are special antennas made especially for your car. Other than that, you have a choice of a standard mount with a wide or narrow base. You will need the narrow base for most late model General Motors Cars. If you already have an external broadcast band antenna, you can replace it with the disguise antenna and use a special coupler available from Antenna Specialists or build a simple duplexer to allow both radios to use the same antenna.

I had a hard time finding a source for the disguise antennas. Most suppliers were only interested in large bulk orders, or had a long waiting period before shipment. I finally found that Amateur Electronic Supply in Wickliffe, Ohio, would gladly get the antenna for me with no wait. They are just down the street from Antenna Specialists. I don't know the current prices of the antennas, but it is somewhat more than you would expect to pay for a similar non-disguise antenna. I personally felt that a few more dollars for an antenna that reduced the possibility of rig theft was more than worth the difference in price.

Antenna Specialists furnished adequate installation information. For me, the hardest part was to determine the exact location to mount the antenna. My broadcast band antenna is in the windshield, so I had nothing to go by for installation. What I finally did was locate some similar model cars that had factory-installed broadcast band fender mount antennas and located my antenna in the same place. Once I determined where I would mount the antenna, the installation took less than thirty minutes.

I have used my disguise antenna for more than three years with no problems. The SWR is almost flat across the entire band. I have noticed little or no coverage difference from the 5/8 wave trunk-mount antenna that I used previously.

If you are looking for a "low-profile" antenna, I feel that you will not be disappointed with this one.

If you operate one of the other repeater bands, Antenna Specialists has disguise antennas for 50, 450, and 900 MHz available. They do not have any disguise antennas for 220 MHz, but the two meter 1/4 wave disguise antenna can be converted to 220 MHz fairly easily. If you would like information on the conversion, send me an SASE and I will make sure you get the conversion information. W.C. Spenn, KD5AK, Box 33081, San Antonio, TX 78265.

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RICHMOND FROSTFEST

Winter Amateur Radio and Computer Show

SUNDAY, JANUARY 18, 1987

Virginia State Fairgrounds, Laburnum Avenue, Richmond, Virginia

Hours: 8:30 A.M.-3:30 P.M. **ARRL APPROVED HAMFEST**

GENERAL ADMISSION	(ADVANCE TICKETS - $4.00) (Children under 12 free with adult)	(AT THE DOOR)	$5.00
FLEA MARKET SPACES	(Without Tables)		$4.00
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AMP SUPPLY AT-1200 ANTENNA TUNER, 700 WATT PEP OUTPUT WITH SWR BRIDGE

★ **DRAWING AT 10:00 A.M.** ★

★ **CONCESSIONS** ★ ★ **HOURLY PRIZES** ★ ★ **LOUNGE AREA** ★

ARRL/VEC Amateur Exams on Saturday, January 17, 1987 at the J. Sargeant Reynolds Community College, 1651 East Parham Road, Richmond, Va. Send photo of present license plus completed FCC form 610 with $4.25, check payable to ARRL/VEC by December 12, 1986 to Ron Bolton, WU4G, Route 4, Box 455, Glen Allen, Va., 23060. Be sure to bring your present license with you. Please register if at all possible and send S.A.S.E. for confirmation. Limited number of walk-ins accepted.

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- ★ Pre-registration tickets are $4.00 each, $5.00 at the door. Monies for tickets and reserved spaces must be received no later than December 31, 1986.
- ★ Building available for set-up from 2:00 p.m. until 11:00 p.m. on Saturday the 17th. Will re-open at 6:00 a.m. Sunday for set-up. Vehicles must vacate building by 8:15 a.m. Sunday. Armed security at all times.
- ★ Entire show inside - no outside facilities available.
- ★ Door prizes of major brand radio equipment and accessories will be awarded at 3:30 p.m. Also hourly prizes beginning at 10:00 a.m. for those present. You do not have to be present for the major prizes.
- ★ Pre-registration form available - For additional information, please contact W. A. "Bill" Scruggs - N4DDM - (804) 272-8206 (After 7 p.m. evenings)
- ★ RV Overnight parking available - no hook-ups.

1987 RICHMOND FROSTFEST

SUNDAY, JANUARY 18, 1987

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Back To Yesteryear - Meeting An Old Friend

— by Dick Anderson, W4OLD
Ctsy W4CA Log, Roanoke, Va.

(This story is dedicated to my old shipmate Wood Fugate, W4JDU.)

The Bluefield, WVA hamfest on August 24th has come and gone. My memories of this day will not soon be forgotten.

Sunday, Aug. 24, was a very beautiful day. My very two good friends, Bill Sprouse, W4KQE and George Winners, KB4QWO and myself drove to Bluefield. I don't believe that Bill and George really could tell how really excited I was. I was going to meet a very special friend of mine. We finally did meet and it was a very emotional time for me.

My special friend's name is Woody Fugate, W4JDU from Cattlettsburg, Ky.

I remember back many years ago... June 1942, Woody and myself were in the big naval battle of Midway Island. Woody was abroad the Destroyer, U.S.S. Hammann, DD-412, and I was aboard the U.S.S. Yorktown CV-5 (Carrier).

Again through Radio Intelligence and I must emphasize that there were many Amateur Radio Operators involved in the Intelligence field at that time. I knew a great many of these people. In the Coral Sea, Radio Intelligence put our ships in the right place at the right time. After the Coral Sea battle, the old Yorktown being damaged by a direct bomb hit and Lord only knows how many near misses and also being at sea 102 days we headed for Pearl Harbor for repairs.

Again through the efforts of Commander Joe Rochefort and his "Code Breaking Team" we were going to do battle with the Japanese at Midway. The Japanese were assembling a huge Naval force to attack Midway and Alaska.

Task Force 17 arrived at Pearl Harbor May 27, 1942. After being 102 days at sea, it was reported that it would take three months to make the Yorktown sea-worthy again.

Fifteen hundred dockyard workers started making repairs to the Yorktown, and it headed back to sea on May 30th, heading for the vicinity of Midway Island to stop the Japanese fleet advance.

On June 4th, the battle began. The U.S. Pacific Fleet really gave the Japanese hell and a thorough licking. However, during the battle, the U.S.S. Yorktown was bombed and torpedoed. There was very much damage from the bombs, torpedos and fires. The ship had a terrible list to Port (left side) and the ship was in great danger of capsizing. Captain Buckmaster gave the order to abandon ship. Over the side we went into a sea of oil from the ruptured oil tanks of the Yorktown. I was finally picked up by the Destroyer Hughes. The Tin Cans (Destroyers) would not come in to get us because the Air Attack and battle was still in progress. The old Yorktown still remained afloat. The high Command made the decision, some-how, some way, they were going to try and get the ship back to Pearl Harbor. The Navy was sending out from Pearl, two large Seagoing tugs and a Submarine Tender. In the meantime, Captain Buckmaster plus a Salvage crew went back aboard the Yorktown.

The DD-412, U.S.S. Hammann went along-side of the mighty Yorktown and furnished power and whatever else she could do to get the Yorktown ready for being towed back to Pearl Harbor. This was on June 6th.

Work was proceeding nicely getting the Yorktown ready to be taken in tow when the Tugs arrived. But something happened. A Japanese Submarine got through out protective Destroyer screen and the rest is history.

The Japanese submarine fired four torpedoes. One hit the U.S.S. Hammann amidships and broke her in two. Two other torpedoes went under the Hammann and hit the U.S.S. Yorktown. The fourth torpedo missed.

The Hammann went doen in less than 3 minutes. While all this was going on, to make matters worse. . . as the Hammann went doen, her Depth Charges went off, making tremendous explosions. It is any wonder anybody got out of this.

There were 228 crewmen aboard the Hammann. Nine Officers and 72 crewmen lost their lives.

My shipmate Woody Fugate, W4JDU was badly injured but by some

(continued on Page 39)

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FCC News

Written Exam Credit

The FCC, according to a news release in October, will allow re-examination credit for written elements passed during an otherwise unsuccessful amateur examination. The new rule will take effect December 1.

Currently the Commission only allows credit for code examination elements. The FCC also clarified that examiners who administer a Novice examination are not required to issue a Certificate of Successful Completion of Examination (CSCE). Instead, applicants may produce a photocopy of a pending application which indicates the applicant has qualified for a Novice license.

These rule changes are contingent upon Office of Management and Budget approval of revisions to FCC Form 610. (ARRL Letter)

New Call-Sign Program

The FCC is strongly considering an alternative way of Amateurs receiving callsigns, on a secondary basis. Presently the ARRL is being considered to carry on the program.

Preliminary information on the proposed program include: An amateur would receive his 2X3 callsign and may continue to use it regardless of his class of license, with no requirement to ever get another call. If the amateur wants another callsign, he could go to the private sector (as of now possibly the ARRL) where he could pay for another special callsign in his license class group. Estimates for the service by the commission for the new assignment callsign run from $20 to $30.

Presently the Commission has not decided how many calls an Amateur might have, but they do feel there should be a grace period at the beginning of the program, where for example, previously held callsigns, or callsigns of deceased family members, could be obtained by their previous owners or other licensed family members.

This could open the way for special events and club callsigns again. More news on this later.

More of 40M Outside U.S.

In the ARRL Letter, they reported that word from the FCC is a proposal for authorizing additional frequencies between 7050-7075 Khz. (40-Meters) for Novices and Technicians outside the U.S. in Region II.

The operators in Alaska, Hawaii, Region 2 Pacific Insular Areas and Caribbean Insular Areas would be effected. Now further word is available at press time.

1987 Roanoke Division LPM at Roanoke, Va.

ARRL Roanoke Division Director, Gay Millius, W4UG has announced that the 1987 League Planning meeting will be held in Roanoke, Va., May 16 and 17th. Theme for the 1987 LPM is "Clubs and Training".

League Planning meetings are held each year in most Divisions around the country, to give League members and any amateur an opportunity to meet formally with League officials and discuss common problems within the ranks of Amateur Radio.

League officials use the knowledge gleaned from the meetings to help steer them at Board meetings where ARRL decisions are made.

Additional information on Registration and reservations by writing: LPM/RVARC, P.O. Box 2002, Roanoke, Va. 24009. This year's meeting is hosted and sponsored by the Roanoke Valley ARC.

The host club recommends everyone come and bring their family. There are plenty of activities for everyone in the Roanoke area, including: Mill Mountain Zoo, The Va. Transportation Museum, Dixie Caverns, Lakeside Amusement Park, SW Va. Science Museum and Planetarium, The Blue Ridge Parkway and much more.

Associate Membership For Repeater Users

Do your amateur friends a good turn. Tell them about CVRA-SERA Associate Membership. Their membership helps support your local coordination effort, which has done quite well for you these past 15 years. Members will also receive the Repeater Journal quarterly.

Clip or copy the Associate Membership form in this issue and pass it on to a friend-tell him to join. Associate Membership for 1 year is $6.00. To get the Journal mailed right from the printer First Class Mail, our "HOT-P" memberships are available at $10.50 for 1 year. Regular membership Journals are mailed after the weekend Third Class Bulk Rate.

Back To Yesteryear

(continued from Page 38)

miracle was saved and picked up by the Destroyer Benham. I myself had only a few minor burns on my hands, and soaked in oil. Outside that, nothing serious. I was picked up by the Destroyer Hughes.

My shipmate Woody was put in the Naval Hospital at Pearl Harbor for three weeks.

So this day at Bluefield had a special meaning for me and Woody. We were seeing each other for the first time in many years, to recall what happened in our life 44 years ago.

CVRA-SERA Organization Facts & Information

To acquaint our members with CVRA-SERA, we will, from time to time be presenting information through the Journal. CVRA-SERA is a frequency coordination body, composed of repeater owners and users within the districts it represents. SERA is a non-profit organization and is dedicated to providing information, education and coordination of repeaters and spectrum space in the UHF/VHF.

OFFICERS

The Corporation is run by elected officers, who are charged with the responsibility of conducting meetings among representatives, seeing that the organizations By-Laws, Constitution and Coordination Policy is followed, and available for assistance where needed.

The President of CVRA-SERA (Carter Cogle, K4ARO) is from Virginia. His job is to overall manager the organization through meetings, correspondence and telephone.

Vice President Jim Fitzgerald, K4OJE also from Virginia, answers to the President, takes his place in his absence, and is the main liason between repeater owners and Full Membership and information.

The CVRA-SERA Secretary, Nita Morgan, N4DON and Treasurer, Ray Adams, N4BAQ both from Tennessee, keep the clerical and financial end of the organization straight.

All four officers are elected from the entire Full Membership in all states. They are starting a new two year term this year, and will serve until the end of 1987.

Officers of CVRA-SERA are not involved in coordination, or the day to day communication with repeater owners and users.

Directors in the various Districts are the ones who run CVRA-SERA, much like a company, the Directors are various Department heads. We will cover Directors in our next issue.

Repeater ID You Won't Forget

The ACC Notes, published by Advanced Computer Controls (A Journal Advertiser) and makers of the RC-850 controller tells of a unique repeater I.D.

It seems that Bruce Larner, WB6CON's repeater in California when I.D.ing, speaks: "I am under the computer control and I will not fail. . . . This is WB6CON repeater. . . repeater. . . repeater. . . repeater (pause) repeater. . . BOOOOOOOM! (Explosion)."

Coming Events

CALENDAR OF EVENTS 1986

NOVEMBER 1986

2	Hamfest, CONCORD, NC
2	Ham Radio Expo '86, LAWRENCEVILLE, GA
22-23	Hamfest - GREENSBORO, N.C.

CALENDAR OF EVENTS 1987

Please note: Dates marked with an asterisk are NOT confirmed show dates and the Repeater Journal assumes no responsibility to their Accuracy. These dates are based on same week, last year. Clubs and Convention Chairmen should contact the Repeater Journal Editor, before Jan. 1, 1987 for corrections and additions to the Calendar for February Journal.

JANUARY 1987

18	Frostfest, RICHMOND, VA
24-25	Hamfest, SARASOTA, FL

FEBRUARY 1987

7-8	Hamfest, MIAMI, FL
15	Winter Hamfest, ELKIN, NC
22*	Hamfest, FAYETTEVILLE, WV
22*	Winterfest, VIENNA, VA

MARCH 1987

6-7-8*	Hamcation, ORLANDO, FL
7*	Hamfest, DALTON, GA
7-8*	Hamfest, LAFAYETTE, LA
21-22*	Hamfest, CHARLOTTE, NC
28-29*	Hamfest, COLUMBUS, GA
29*	Hamfest, TIMONIUM, MD

APRIL 1987

11*	Hamfest, Kennehoochee, MARIETTA, GA
12	RARS Hamfest, RALEIGH, NC
24-25-26*	Hamvention, DAYTON, OH

MAY 1987

2-3	Hamfest, GREENVILLE, SC
16-17*	Hamfest, BIRMINGTON, AL
16-17	ARRL Roanoke Div. LPM Meet, ROANOKE, VA
16-17*	Hamfest, Hamfest, TOCCOA, GA
23*	DFMA Hamfest, DURHAM, NC
30-31	Hamfest, KNOXVILLE, TN
31*	Hamfest, ROANOKE, VA

JUNE 1987

6*	Hamfest, ROSSVILLE, GA
6*	John Ross Hamfest, FT. OGLETHROPE, GA
6-7*	Hamfest, ALBANY, GA
7*	Hamfest, HUMBOLT, TN
7*	Hamfest, MANASSAS, VA
7*	Hamfest, MUNCIE, IN

JULY 1987

4-5	WV Radio Council Fest, JACKSON'S MILL, WV
10-11-12	ARRL Nat'l, Conv., ATLANTA, GA
18*	Summer Swapfest, CARY, NC
19*	TSRAC Hamfest, WHEELING, WV
25-26*	WCARS Hamfest, ASHEVILLE, NC
26*	BRATS Hamfest, W. FRIENDSHIP, MD
26*	Hamfest/Computer Show, CHARLESTON, WV

AUGUST 1987

1-2*	Hamfest, JACKSONVILLE, FL
2*	Winchester Hamfest, BERRYVILLE, VA
8*	Jax County Hamfest, COTTAGEVILLE, WV
9*	Hamfest, LEXINGTON, KY
15-16*	Hamfest, HUNTSVILLE, AL
22-23	Hamfest, MADISION, GA
22-23*	Hamfest, VIRGINIA BEACH, VA
23*	ERARC Hamfest, BLUEFIELD, WV
23*	Hamfest, GAITHERSBURG, MD

SEPTEMBER 1987

5-6*	Hamfest, SHELBY, NC
27*	Hamfest, Lanierland ARC, GAINESVILLE, GA

OCTOBER 1987

4	Hamfest, ROCK HILL, SC
10-11*	Central Ga. Hamfest, WARNER ROBBINS, GA
11*	3rd Annual Techfest, RICHMOND, VA
11*	Hamfest, MAYSVILLE, NC
17*	Tri-Cities Hamfest, GRAY, TN
24-25*	Central Alabama Hamfest, MONTGOMERY, AL
24-25	Hamfest, CHATTANOOGA, TN
25*	New River Valley Hamfest, DUBLIN, VA
31-NOV. 1	Ham Radio/Comp. Expo '87, LAWRENCEVILLE, GA

NOVEMBER 1987

7*	Hamfest, CONCORD, NC
21-22*	Hamfest, GREENSBORO, NC

DEADLINES: For confirming dates for the FEBRUARY JOURNAL, the deadline to the Editor is January 1, 1987. ADVERTISING: Hamfest Advertising for shows in the Spring: Insertion deadline, December 20th. Copy deadline: January 1, 1987.

BUY YOUR EQUIPMENT FROM OUR REPEATER JOURNAL ADVERTISERS TELL THEM YOU SAW THEIR AD IN THE REPEATER JOURNAL!

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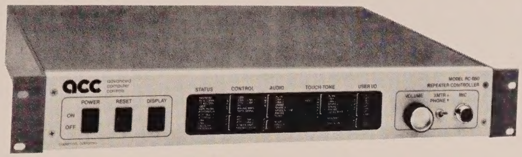
American Radio Relay League (CT)	**33**
Britt's Two-Way Radio (GA)	**32**
Business Card Advertisers	**35**
Certified Communications (SC)	**11**
Classified Advertising	**27**
Dynamic Engravers (NC)	**30**
Electronics Equipment Bank (EEB) (VA)	**34**
ENCOMM, INC. (TX)	**Ins. Ft. Cover**
F & M Electronics (NC)	**8**
Greensboro Hamfest (NC)	**4-5**
H.L. Heaster (WV)	**10**
MarVista Motel (SC)	**7**
Repeater-Club-Net Service Page	**13**
Repeater Journal Advertising Page	**31**
Richmond Frostfest (VA)	**36-37**
West Antenna Service (NC)	**26**
Williams Radio Sales (NC)	**6, 15, 29, 38**

- Used repeatedly every day by Amateurs for reference of repeater listings of North Carolina, South Carolina, Virginia, Tennessee, West Virginia, Georgia and Eastern Kentucky. The REPEATER JOURNAL contains the most up-to-date listings of any publication on the market today.

When we set out to make the best amateur radio equipment in the world, we had some pretty tough standards to live up to ...



... yours

... and ours.

So we designed the **RC-850 Repeater Controller**, the industry's top of the line repeater control system. Now in it's "third wave" of innovation, thanks to its designed for the future architecture and new software releases.
The '850 defines the industry standard in repeater control systems.

- Fully remotely programmable with Touch-Tone commands
- Front panel LED display
- Over 300 word customized male and female speech synthesis vocabulary
- Time/day of week Scheduler with 10 set-up states, 30 changeovers and events, over 100 scheduled items for hands off operation and automatic reminders.
- Full or half duplex autopatch, autodial (250 numbers), emergency autodial, reverse autopatch, antidialer, toll restrict including telephone exchange tables, supports remote and multiple phone lines
- Informative remotely programmable ID's (17), tail messages (13), bulletin boards (5)
- 16 channel voice response analog metering, automatic storage of min/max values on each channel, values may be read back on command or may be included in any programmable messages
- Supports synthesized remote base transceivers and full duplex links
- Individual user access codes to selectable features
- Mailbox for user-to-user, and system-to-user messages
- Paging – two-tone, 5/6 tone, DTMF, CTCSS, HSC display, user commandable and may be included in programmable messages (i.e. alarms)
- Easy hookup to any repeater

If your repeater budget can't afford the '850, we offer the **RC-85 Repeater Controller**, which we like to call the "second best repeater controller in the world". It's a scaled down, simplified version of our '850, but overall, it offers more capability and higher quality than anyone elses control equipment at any price.

- Remotely programmable with Touch-Tone commands
- Over 175 word customized male speech synthesis vocabulary
- Selectable "Macro sets" for easy control operator selection
- Autopatch, autodial (200) numbers, emergency autodial, reverse patch
- Remotely programmable informative ID's (7), tail messages (3), bulletin board (2)
- Supports synthesized remote base transceiver, control receiver, alarm
- Selectable, informative courtesy tones
- Talking S-meter, Two-tone paging
- Easy hookup to any repeater

For those who like to "roll their own", we can get you off to a rolling start with our **ITC-32 Intelligent Touch-Tone Control Board**. Much more than just a decoder, it's a mini-control system of its own, with the basic repeater and remote base functions built-in. And it can be tailored by you with its Personality Prom.

- 28 remotely controllable latched or pulsed logic outputs
- 4 alarm or remote sensed logic inputs
- Response messages to confirm command entry
- Repeater functions including COR, IDer, timers, courtesy tone, etc.
- Remote base functions including control of synthesized transceiver

Our new **Digital Voice Recorder** lets you remotely record ID's, tail messages, and various other response messages for automatic playback through your repeater. Audio is stored digitally with no-compromise reproduction quality in up to eight megabits of memory. The DVR can support up to three independent repeaters for a low per-channel cost. Its Touch-Tone activated voice mailbox lets your users easily record messages for other users when they aren't around.

- Remotely recordable, variable length audio tracks, accessed from controller messages
- Top quality, no compromise audio reproduction
- Supports up to three repeaters for cost effective installation
- Expandable to roughly 6 minutes of speech in 8 megabits of memory
- Easy interface to RC-850, RC-85 controllers, or to any stand-alone repeater

QST: Attention All Hams

If you own a shack, you should know about ShackMaster™.

ShackMaster lets you carry your home station with you in the palm of your hand. It acts as your gateway to the world, linking your handheld transceiver to your high performance HF station. Now, instead of your valuable home equipment being available to you 1% of the time, it's available 99% of the time! Whether around the house, in the yard, or across town, ShackMaster let's you take it with you.

But that's just part of ShackMaster's story. It lets you communicate with the family by handling third party traffic – its electronic mailbox and intercom let you keep in touch. And a simplex patch lets you place important calls directly through your home phone.

- Crossband linking – VHF/UHF to HF
- Telephone access to your home station
- BSR Home Control interface
- Electronic Mailbox
- ShackPatch™ intercom into the shack
- PersonalPatch™ simplex autopatch

All our products are documented with high quality, easy to read manuals. Our goal is to advance the state of the repeater art. But most of all, our products put the FUN back into the FUN MODE!

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To order one of these advanced control products, call 408-749-8330. Technical manuals are available for purchase and the amount paid is applied as a deposit on the equipment. For specifications and a copy of our ACC Notes newsletter, just write or send in your QSL card to:

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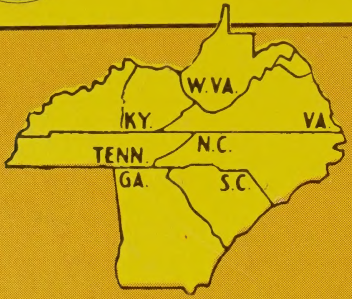

"In Our 15th Year
Of Service
To The VHF/UHF
Amateur"

Representing Coordination and UHF/VHF Interests Throughout North Carolina South Carolina, Virginia, Tennessee, West Virginia, East Kentucky and Georgia

THE CVRA—SOUTHEASTERN REPEATER ASSOCIATION STATE DIRECTORS, VICE DIRECTORS AND ASSISTANTS

For Assistance in Repeater Coordination, Frequency Coordination, Changes in Repeaters, and Any other Assistance You May Require from the CVRA. Contact Your Local Director or His Assistant.

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